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RESULT 5  
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 LOCUS H.sapiens Ig lambda light chain variable region gene (25-28SWID60)  
 DEFINITION rearranged; Ig-Light-Lambda; VLambda.  
 ACCESSION 285358  
 VERSION 285358.1 GI:1835069  
 KEYWORDS antigen receptor; immunoglobulin; immunoglobulin light chain;  
 immunoglobulin superfamily; rearranged; variable region.  
 SOURCE Homo sapiens.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 435)  
 AUTHORS Ignatovich,O., Tomlinson,I.M., Jones,P.T. and Winter,G.  
 TITLE XXXThe Creation of Diversity in the Human Immunoglobulin V Lambda  
 Repertoire  
 JOURNAL J. Mol. Biol.  
 REFERENCE 2 (bases 1 to 435)  
 AUTHORS Ignatovich,O.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-FEB-1997) Ignatovich O., MRC Centre for Protein  
 Engineering, Hills Road, Cambridge CB2 2QH, UK  
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 Matches 356; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

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 DEFINITION (24-09ITIIC195) rearranged; Ig-Light-Lambda; VLambda.  
 ACCESSION 285035  
 VERSION 285035.1 GI:1834746  
 KEYWORDS antigen receptor; immunoglobulin; immunoglobulin light chain;  
 immunoglobulin superfamily; rearranged; variable region.  
 SOURCE Homo sapiens.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 435)  
 AUTHORS Ignatovich,O., Tomlinson,I.M., Jones,P.T. and Winter,G.  
 TITLE XXXThe Creation of Diversity in the Human Immunoglobulin V Lambda  
 Repertoire  
 JOURNAL J. Mol. Biol.  
 REFERENCE 2 (bases 1 to 435)  
 AUTHORS Ignatovich,O.  
 TITLE Direct Submission  
 JOURNAL Submitted (06-FEB-1997) Ignatovich O., MRC Centre for Protein  
 Engineering, Hills Road, Cambridge CB2 2QH, UK  
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 Matches 355; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

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## RESULT 9

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ACCESSION AX379222  
VERSION AX379222.1 GI:19575062  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE  
AUTHORS Meagher,M.J., King,G.E., Xu,J. and Secrist,H.  
TITLE Compositions and methods for the therapy and diagnosis of colon  
cancer

JOURNAL  
Patent: WO 0196389-A 264 20-DEC-2001;  
CORIXA CORPORATION (US)

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DEFINITION H. sapiens Ig lambda light chain variable region gene  
(24-121TIIIE213) rearranged; Ig-Light-Lambda; VLambda.  
ACCESSION Z85038  
VERSION Z85038.1 GI:1834749  
KEYWORDS antigen receptor; immunoglobulin; immunoglobulin light chain;  
immunoglobulin superfamily; rearranged; variable region.  
SOURCE Homo sapiens.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE  
AUTHORS 1 (bases 1 to 435)  
TITLE Ignatovich,O., Tomlinson,I.M., Jones,P.T. and Winter,G.  
JOURNAL XXXThe Creation of Diversity in the Human Immunoglobulin V Lambda  
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Db 1 ATGGCTGGGCTCTGCTCTCTCTCACTCAGGGCACAGGATCTGGGCTCAG 60  
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Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5 adaptor: GGCACGAG(G). Size selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies) .
Note: this is a NIH MGC Library."
187 a 278 c 217 g 161 t

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REFERENCE	1 (bases 1 to 1078)		
AUTHORS	NIH-MGC <a href="http://imgc.nci.nih.gov/">http://imgc.nci.nih.gov/</a> .		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		





LOCUS BG685732 829 bp mRNA linear EST 01-MAY-2001  
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VERSION BG685732.1 GI:13917129  
KEYWORDS EST.  
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 829)  
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-remail.nih.gov  
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
cDNA Library Preparation: Ling Hong/Rubin Laboratory  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
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for average insert size 1.8kb. Library constructed by Ling  
Hong in the laboratory of Gerald M. Rubin (University of  
California, Berkeley) using ZAP-cDNA synthesis kit  
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REFERENCE 1 (bases 1 to 686)  
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-remail.nih.gov  
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
cDNA Library Preparation: Ling Hong/Rubin Laboratory  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
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Directionally cloned into EcoRI/XhoI sites using the  
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for average insert size 1.8kb. Library constructed by Ling  
Hong in the laboratory of Gerald M. Rubin (University of  
California, Berkeley) using ZAP-cDNA synthesis kit  
(Stratagene) and Superscript II RT (Life Technologies).  
Note: this is a NIH\_MGC Library."  
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AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominiidae; Homo.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL 1 (bases 1 to 786)
COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)
    Unpublished (1999)
    Contact: Robert Strausberg, Ph.D.
    Email: cgabbs-remail.nih.gov
    Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
    cDNA Library Preparation: Ling Hong/Rubin Laboratory
    CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
    DNA Sequencing by: Incyte Genomics, Inc.
    Clone distribution: MGC clone distribution information can be
    found through the I.M.A.G.E. Consortium/LLNL at:
    http://image.llnl.gov
    Plate: LLCM1699 row: 1 column: 03
    High quality sequence stop: 786.
    Location/Qualifiers
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        /organism="Homo sapiens"
        /db_xref="taxon:9606"
        /clone="IMAGE:4853450"
        /clone_lib="NIH_MGC_48"
        /tissue_type="Primary B-cells from tonsils (cell line)"
        /lab_host="DH10B (phage-resistant)"
        /note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
        Site 2: EcoRI; cDNA made by oligo-dT priming.
        Directionally cloned into EcoRI/XhoI sites using the
        following 5' adaptor: GGCACGAG(G). Size-selected >500bp
        for average insert size 1.8kb. Library constructed by Ling
        Hong in the laboratory of Gerald M. Rubin (University of
        California, Berkeley) using ZAP-cDNA synthesis kit
        (Stratagene) and Superscript II RT (Life Technologies).
        Note: this is a NIH_MGC Library."
BASE COUNT 176 a 261 c 206 g 143 t
ORIGIN

Query Match 84.4%; Score 329.2; DB 12; Length 786;
Best Local Similarity 90.3%; Pred. No. 2.7e-82;
Matches 352; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 1 ATGGGCTGGACTGCTCGCTCCCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60
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Db 32 ATGGGCTGGGCTCTGCTCTCTCTCCCTCACTCAGGGCACAGGCTCTGGGCCCCAG 91
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QY 61 TCTGCCCGACTCAGCCTCCCTCTGTGTCTGGGTCTCTCGACAGTCGGTCAACATCTCC 120
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Db 92 TCTGCCCTGACTCAGCCTCCCTCCGCGTCCGGTCTCTCGACAGTCAGTCAACATCTCC 151
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QY 121 TGCATCTGGAACCGAGTACAGCTGGTGGTTATTAACATATGTCCTCGGTACCAACACCAC 180
    |||||
Db 152 TGCATCTGGAACCGAGTACAGCTGGTGGTTATTAACATATGTCCTCGGTACCAACAGCAC 211
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QY 181 CCAGGCAAGCCCAAACTCATGATTTATGATGTCGCTAAGCGGCCTCAGGGGTCTCT 240
    |||||
Db 212 CCAGGCAAGCCCAAACTCATGATTTATGAGGTCAATTAAGCGGCCCTCAGGGGTCTCT 271
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QY 241 GATCGCTTCTCTGGTCTCCAACTCTGGCAACACGGGCTCCCTGACCATCTCTGGGCTCCAG 300
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Db 272 GATCGCTTCTCTGGTCTCCAACTCTGGCAACACGGGCTCCCTGACCGTCTCTGGGCTCCAG 331
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QY 301 GCTGAGGACGAGGCTGATTTACTGTTGTTTCATATACAACAGTAGACATTGTTATTC 360
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Db 332 GCTGAGGATGAGGCTGATTTACTGTCAGCTCATATGACGAGTCATATGTCAGGCAACAATTATGTTCT 391
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QY 361 GGAAGAGGAGCCCGGTTGACCGTCTCTAGGT 390
    |||||
Db 392 GGAAGTGGACCAAGGTCAACCGTCTCTAGGT 421
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RESULT 10
LOCUS BG756342 889 bp mRNA linear EST 15-MAY-2001
DEFINITION 602713662F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4853919 5',
    mRNA sequence.
ACCESSION BG756342
VERSION BG756342.1 GI:14066995
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Euthera; Primates; Catarrhini; Hominiidae; Homo.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL 1 (bases 1 to 889)
COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)
    Unpublished (1999)
    Contact: Robert Strausberg, Ph.D.
    Email: cgabbs-remail.nih.gov
    Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
    cDNA Library Preparation: Ling Hong/Rubin Laboratory
    CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
    DNA Sequencing by: Incyte Genomics, Inc.
    Clone distribution: MGC clone distribution information can be
    found through the I.M.A.G.E. Consortium/LLNL at:
    http://image.llnl.gov
    Plate: LLCM1700 row: 1 column: 16
    High quality sequence stop: 810.
    Location/Qualifiers
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        /db_xref="taxon:9606"
        /clone="IMAGE:4853919"
        /clone_lib="NIH_MGC_48"
        /tissue_type="Primary B-cells from tonsils (cell line)"
        /lab_host="DH10B (phage-resistant)"
        /note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
        Site 2: EcoRI; cDNA made by oligo-dT priming.
        Directionally cloned into EcoRI/XhoI sites using the
        following 5' adaptor: GGCACGAG(G). Size-selected >500bp
        for average insert size 1.8kb. Library constructed by Ling
        Hong in the laboratory of Gerald M. Rubin (University of
        California, Berkeley) using ZAP-cDNA synthesis kit
        (Stratagene) and Superscript II RT (Life Technologies).
        Note: this is a NIH_MGC Library."
BASE COUNT 215 a 289 c 222 g 163 t
ORIGIN

Query Match 84.4%; Score 329.2; DB 12; Length 889;

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/lab host="DH10B (phage-resistant)"  
 /note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;  
 Site 2: EcoRI; cDNA made by oligo-dT priming.  
 Directionally cloned into EcoRI/XhoI sites using the  
 following 5' adaptor: GGACAGG(G). Size-selected >500bp  
 for average insert size 1.8kb. Library constructed by Ling  
 Hong in the laboratory of Gerald M. Rubin (University of  
 California, Berkeley) using ZAP-cDNA synthesis kit  
 (Stratagene) and Superscript II RT (Life Technologies).  
 Note: this is a NIH\_MGC library."

BASE COUNT 225 a 305 c 242 g 181 t

Query Match 84.4%; Score 329.2; DB 12; Length 953;  
 Best Local Similarity 90.3%; Pred. No. 2.9e-82;  
 Matches 352; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 1 ATGGCTGGACTCTGCTCTCTGCTACCCCTCTCACTCAGGGCACAGGATCTTGGGCTCAG 60  
 Db |||||  
 QY 61 TCTGCCGACTCAGCTCCCTCTGTCTGTGGTCTCTGGACATCGGTACCATCTCC 120  
 Db |||||  
 QY 93 TCTGCCCTGACTCAGCTCCCTCCGGTCCGGTCTCTGGACATCGATCACCATCTCC 152  
 Db |||||  
 QY 121 TGCACCTGGAACACGAGTACGCTTGGTGGTTATTAATCTGTCTCTGGTACCAACACCAC 180  
 Db |||||  
 QY 153 TGCACCTGGAACACGAGTACGATTGGTGAATTAATCTGTCTCTGGTACCAACAGCAC 212  
 Db |||||  
 QY 181 CCAGCAAGACCCCAAACTCATGATTTATGATGCGTTAAGCGGCCCTCAGGGTCTCT 240  
 Db |||||  
 QY 213 CCAGCAAGACCCCAAACTCATGATTTATGAGGTCATTAAGCGGCCCTCAGGGTCTCT 272  
 Db |||||  
 QY 241 GATCGTTCTCTGGTCCAAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300  
 Db |||||  
 QY 273 GATCGTTCTCTGGTCCAAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 332  
 Db |||||  
 QY 301 GCTGAGGACGAGCTGATTATTACTTGTCTCATATACACAGTAGCACTTTGTTATTTC 360  
 Db |||||  
 QY 333 GCTGCGGATGAGCTGATTATTACTGCAGCTCATATGACGAGCAACAGTTTGTCTTC 392  
 Db |||||  
 QY 361 GGAAGAGGACCGGTTGACCTCTCTAGGT 390  
 Db |||||  
 QY 393 GCGGAGGACCAAGCTGACCGTCTCTAGGT 422  
 Db |||||

RESULT 13  
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 LOCUS AW404692 980 bp mRNA linear EST 12-MAR-2001

DEFINITION 602439086F1 NIH\_MGC\_48 Homo sapiens cDNA clone IMAGE:4565516 5',  
 mRNA sequence.

ACCESSION BG397302.1 GI:13290750

VERSION EST.

KEYWORDS human.

SOURCE Homo sapiens

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 980)

NIH-MGC http://imgc.ncbi.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs@mail.nih.gov

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.

cDNA Library Preparation: Ling Hong/Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLCW1282 row: k column: 21

High quality sequence stop: 881.

FEATURES  
 source

Location/Qualifiers

1. .980  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:4565516"  
 /clone\_lib="NIH\_MGC\_48"  
 /tissue\_type="Primary B-cells from tonsils (cell line)"  
 /lab\_host="DH10B (phage-resistant)"  
 /note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;  
 Site 2: EcoRI; cDNA made by oligo-dT priming.  
 Directionally cloned into EcoRI/XhoI sites using the  
 following 5' adaptor: GGACAGG(G). Size-selected >500bp  
 for average insert size 1.8kb. Library constructed by Ling  
 Hong in the laboratory of Gerald M. Rubin (University of  
 California, Berkeley) using ZAP-cDNA synthesis kit  
 (Stratagene) and Superscript II RT (Life Technologies).  
 Note: this is a NIH\_MGC Library."

BASE COUNT 233 a 293 c 263 g 190 t

Query Match 84.4%; Score 329.2; DB 12; Length 980;

Best Local Similarity 90.3%; Pred. No. 3e-82;

Matches 352; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 1 ATGGCTGGACTCTGCTCTCTGCTACCCCTCTCACTCAGGGCACAGGATCTTGGGCTCAG 60  
 Db |||||  
 QY 61 TCTGCCGACTCAGCTCCCTCTGTCTGTGGTCTCTGGACATCGGTACCATCTCC 120  
 Db |||||  
 QY 93 TCTGCCCTGACTCAGCTCCCTCCGGTCCGGTCTCTGGACATCGATCACCATCTCC 152  
 Db |||||  
 QY 121 TGCACCTGGAACACGAGTACGCTTGGTGGTTATTAATCTGTCTCTGGTACCAACACCAC 180  
 Db |||||  
 QY 153 TGCACCTGGAACACGAGTACGATTGGTGAATTAATCTGTCTCTGGTACCAACAGCAC 212  
 Db |||||  
 QY 181 CCAGCAAGACCCCAAACTCATGATTTATGATGCGTTAAGCGGCCCTCAGGGTCTCT 240  
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 QY 213 CCAGCAAGACCCCAAACTCATGATTTATGAGGTCATTAAGCGGCCCTCAGGGTCTCT 272  
 Db |||||  
 QY 241 GATCGTTCTCTGGTCCAAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300  
 Db |||||  
 QY 273 GATCGTTCTCTGGTCCAAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 332  
 Db |||||  
 QY 301 GCTGAGGACGAGCTGATTATTACTTGTCTCATATACACAGTAGCACTTTGTTATTTC 360  
 Db |||||  
 QY 333 GCTGCGGATGAGCTGATTATTACTGCAGCTCATATGACGAGCAACAGTTTGTCTTC 392  
 Db |||||  
 QY 361 GGAAGAGGACCGGTTGACCGTCTCTAGGT 390  
 Db |||||  
 QY 393 GCGGAGGACCAAGCTGACCGTCTCTAGGT 422  
 Db |||||

RESULT 14

LOCUS AW404692

DEFINITION UI-HF-BL0-acd-a-11-0-UI.r1 NIH\_MGC\_37 Homo sapiens cDNA clone

IMAGE:3058484 5', mRNA sequence.

ACCESSION AW404692

VERSION AW404692.1 GI:6923749

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 487)

NIH-MGC http://imgc.ncbi.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs@mail.nih.gov

Eco RI site shown at the beginning of the sequence.

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.





















CC disorders involving aberrant protein expression or biological activity.  
 CC The polypeptide and polynucleotide sequences have applications in  
 CC diagnostics, forensics, gene mapping, identification of mutations  
 CC responsible for genetic disorders or other traits to assess biodiversity  
 CC and to produce other types of data and products dependent on DNA and  
 CC amino acid sequences. AAS64197-AAS94564 represent novel human  
 CC diagnostic coding sequences of the invention.  
 CC Note: The sequence data for this patent did not appear in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX  
 SQ Sequence 756 BP; 161 A; 240 C; 197 G; 158 T; 0 other;

Query Match 78.7%; Score 306.8; DB 23; Length 756;

Best Local Similarity 86.7%; Pred. No. 7.8e-84;

Matches 338; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 1 ATGGCTGGACTCTGCTCTCGTCCCTGCTACCTCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
 DB 1 ATGGCTGGACTCTGCTCTCGTCCCTGCTACCTCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
 QY 61 TCTGCCCGACTCAGCTCCCTCTGTCTGGGTCTCTGGACAGTGGTCAACATCTCC 120  
 DB 61 TCTGCCCGACTCAGCTCCCTCTGTCTGGGTCTCTGGACAGTGGTCAACATCTCC 120  
 QY 121 TGCACCTGGAAACAGGATGACGTTGGTGTATTAATCTCTCTGGTACCAACACAC 180  
 DB 121 TGCATTTGGACACGAGTGACATTTGGTGTATTAATCTCTCTGGTACCAACATAT 180  
 QY 181 CCAGGCAAGCCCCCAAACTGATTTATGATGTGCTTAAGCGGGCTCAGGGTCTCT 240  
 DB 181 CCAGGCAAGCCCCCAAACTGATTTATGATGTGCTTAAGCGGGCTCAGGGATTTCT 240  
 QY 241 GATCGCTTCTCTGGCTCCAGTCTGGCAACAGGGCTCCCTGACCATCTCTGGGCTCCAG 300  
 DB 241 AGTCGCTTCTCTGGCTCCAGTCTGGCAACAGGGCTCCCTGACCATCTCTGGGCTCCAG 300  
 QY 301 GCTGAGGACGAGCTGATTATTAATGATGTGCTTAACACAGTAGCACTTTGTTATTC 360  
 DB 301 GCTGAGGACGAGCTGATTATTAATGATGTGCTTAACACAGTAGCACTTTGTTATTC 360  
 QY 361 GGAAGAGGACCGGTTGACCGTCTAGGT 390  
 DB 361 GCGGAGGACCGGTTGACCGTCTAGGT 390

# RESULT 11

AAS87037  
 ID AAS87037 standard; cDNA; 866 BP.

XX AAS87037;

XX 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #22841.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;

KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

OS WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US08631.

XX 31-MAR-2000; 2000US-0540217.

XX 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.  
 DR P-PsDB; A5G22850.  
 XX  
 PT New isolated polynucleotide and encoded polypeptides, useful in  
 PT diagnostics, forensics, gene mapping, identification of mutations  
 PT responsible for genetic disorders or other traits and to assess  
 PT biodiversity -  
 XX  
 PS Claim 1; SEQ ID No 22841; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and  
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
 CC and gene mapping, and in recombinant production of (II). The  
 CC polynucleotides are also used in diagnostics as expressed sequence tags  
 CC for identifying expressed genes. (I) is useful in gene therapy techniques  
 CC to restore normal activity of (II) or to treat disease states involving  
 CC (II). (II) is useful for generating antibodies against it, detecting or  
 CC quantitating a polypeptide in tissue, as molecular weight markers and as  
 CC a food supplement. (II) and its binding partners are useful in medical  
 CC imaging of sites expressing (II). (I) and (II) are useful for treating  
 CC disorders involving aberrant protein expression or biological activity.  
 CC The polypeptide and polynucleotide sequences have applications in  
 CC diagnostics, forensics, gene mapping, identification of mutations  
 CC responsible for genetic disorders or other traits to assess biodiversity  
 CC and to produce other types of data and products dependent on DNA and  
 CC amino acid sequences. AAS64197-AAS94564 represent novel human  
 CC diagnostic coding sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 866 BP; 200 A; 274 C; 213 G; 179 T; 0 other;

Query Match 78.7%; Score 306.8; DB 23; Length 866;

Best Local Similarity 86.7%; Pred. No. 8.2e-84;

Matches 338; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 1 ATGGCTGGACTCTGCTCTCGTCCCTGCTACCTCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
 DB 1 ATGGCTGGACTCTGCTCTCGTCCCTGCTACCTCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
 QY 61 TCTGCCCGACTCAGCTCCCTCTGTCTGGGTCTCTGGACAGTGGTCAACATCTCC 120  
 DB 61 TCTGCCCGACTCAGCTCCCTCTGTCTGGGTCTCTGGACAGTGGTCAACATCTCC 120  
 QY 121 TGCACCTGGAAACAGGATGACGTTGGTGTATTAATGATGTCTCTGGTACCAACAC 180  
 DB 121 TGCATTTGGACACGAGTGACATTTGGTGTATTAATGATGTCTCTGGTACCAATAT 180  
 QY 181 CCAGGCAAGCCCCCAAACTGATTTATGATGTGCTTAAGCGGGCTCAGGGTCTCT 240  
 DB 181 CCAGGCAAGCCCCCAAACTGATTTATGATGTGCTTAAGCGGGCTCAGGGATTTCT 240  
 QY 241 GATCGCTTCTCTGGCTCCAGTCTGGCAACAGGGCTCCCTGACCATCTCTGGGCTCCAG 300  
 DB 241 AGTCGCTTCTCTGGCTCCAGTCTGGCAACAGGGCTCCCTGACCATCTCTGGGCTCCAG 300  
 QY 301 GCTGAGGACGAGCTGATTATTAATGATGTGCTTAACACAGTAGCACTTTGTTATTC 360  
 DB 301 GCTGAGGACGAGCTGATTATTAATGATGTGCTTAACACAGTAGCACTTTGTTATTC 360  
 QY 361 GGAAGAGGACCGGTTGACCGTCTAGGT 390  
 DB 361 GCGGAGGACCGGTTGACCGTCTAGGT 390

# RESULT 12

ABV22585

ID ABV22585 standard; cDNA; 1636 BP.

XX ABV22585;













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; NAME/KEY: CDS
; LOCATION: 1..390
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 58..390
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-103-686-1

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Best Local Similarity 100.0%; Pred. No. 1.7e-119;
Matches 390; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 TCTGCCCGCACTCAGCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCAACATCTCC 120
Db 61 TCTGCCCGCACTCAGCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCAACATCTCC 120

QY 121 TGCACTGGAACACGAGTACGCTGGTGTATTAATACTATGTCTCTGGTACCAACACCAC 180
Db 121 TGCACTGGAACACGAGTACGCTGGTGTATTAATACTATGTCTCTGGTACCAACACCAC 180

QY 181 CCAGGCAAGGCCCAACTCATGATTTATGATGTCGCTAAGGGGCTCAGGGGTCTCT 240
Db 181 CCAGGCAAGGCCCAACTCATGATTTATGATGTCGCTAAGGGGCTCAGGGGTCTCT 240

QY 241 GATCGCTTCTCTGGCTCCAACTGTCGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300
Db 241 GATCGCTTCTCTGGCTCCAACTGTCGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300

QY 301 GCTGAGGACGAGCTGATTATTAATGTTTTCATATACCAACAGTAGCACTTTGTTATTC 360
Db 301 GCTGAGGACGAGCTGATTATTAATGTTTTCATATACCAACAGTAGCACTTTGTTATTC 360

QY 361 GGAAGAGGACCCGGTTGACCTCCTAGGT 390
Db 361 GGAAGAGGACCCGGTTGACCTCCTAGGT 390
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RESULT 2
US-09-019-441-1
; Sequence 1, Application US/09019441
; Publication No. US20030086921A1
; GENERAL INFORMATION:
; APPLICANT: REFF, Mitchell E.
; KLOETZER, William S.
; NAKAMURA, Takehiko
; TITLE OF INVENTION: ANTI-HUMAN CD23 MONOCLONAL
; ANTIBODIES AND USE THEREOF AS THERAPEUTICS
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/019,441
; FILING DATE: 05-Feb-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/803,085
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```

;
; FILING DATE: 20-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-502
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 390 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..390
; NAME/KEY: mat_peptide
; LOCATION: 58..390
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-019-441-1

Query Match      100.0%; Score 390; DB 9; Length 390;
Best Local Similarity 100.0%; Pred. No. 1.7e-119;
Matches 390; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGCTGCACTGCTCTCTGTCACCCCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 60
Db 1 ATGGCTGCACTGCTCTCTGTCACCCCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 60

QY 61 TCTGCCCGCACTCAGCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCAACATCTCC 120
Db 61 TCTGCCCGCACTCAGCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCAACATCTCC 120

QY 121 TGCACTGGAACACGAGTACGCTGGTGTATTAATACTATGTCTCTGGTACCAACACCAC 180
Db 121 TGCACTGGAACACGAGTACGCTGGTGTATTAATACTATGTCTCTGGTACCAACACCAC 180

QY 181 CCAGGCAAGGCCCAACTCATGATTTATGATGTCGCTAAGGGGCTCAGGGGTCTCT 240
Db 181 CCAGGCAAGGCCCAACTCATGATTTATGATGTCGCTAAGGGGCTCAGGGGTCTCT 240

QY 241 GATCGCTTCTCTGGCTCCAACTGTCGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300
Db 241 GATCGCTTCTCTGGCTCCAACTGTCGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300

QY 301 GCTGAGGACGAGCTGATTATTAATGTTTTCATATACCAACAGTAGCACTTTGTTATTC 360
Db 301 GCTGAGGACGAGCTGATTATTAATGTTTTCATATACCAACAGTAGCACTTTGTTATTC 360

QY 361 GGAAGAGGACCCGGTTGACCTCCTAGGT 390
Db 361 GGAAGAGGACCCGGTTGACCTCCTAGGT 390

RESULT 3
US-10-139-846-13206/c
; Sequence 13206, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
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Db 319 GCTGAGGACGAGCTCATTATTATTCAGTTTCATATACACGAGCACTCTCGTCTC 378  
Qy 361 GGAAGAGGACCCGGTTGACGCTCCTAGT 390  
Db 379 GGAATGGGGCCAAAGTCACCGTCTCTATGT 408

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RESULT 6
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; Sequence 16692, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16692
; LENGTH: 421
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-918-995-16692

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Query Match	83.2%	Score 324.4	DB 9	Length 421
Best Local Similarity	89.5%	Pred. No. 1.1e-97		
Matches 349	Conservative 0	Mismatches 41	Indels 0	Gaps 0
QY	1	ATGGCCTGGACTCTGCTCTCTGTCACCCCTCTCACTCAGGCGACAGGATCTCGGGTCCAG	60	
DB	31	ATGGCCTGGGCTCTGCTGCTCTCAACCCTCTCTCACTCAGGCGACAGGCTCTGGGCCAG	90	
QY	61	TGTGCCCGACTCAGCCCTCCCTCTGTGTCCTGGGTCTCTTGGACAGTCGGTCAACATCTCC	120	
DB	91	TCTGCCCTGACTCAGCCTCCCTCCGTGTCTGGGTCTCTTGGACAGTCGATCAGCATCTCC	150	
QY	121	TGCACCTGGAACAGCAGGATGACGTTGGTGGTTATTAACATATGTCCTCGTACCACCAACAC	180	
DB	151	TGCACCTGGAACAGCAGGATGACATGGTGGTTTACAAACATGTCCTCGTACCACCAACAC	210	
QY	181	CCAGGCAAAAGCCCCAAACTCATGATTTATGATGTGCTAAGCGGGGCTTCAGGGGTCTCT	240	
DB	211	CCAGGCAAAAGCCCCAAACTCATGATTTATGAGGTGAGTAATCGGCCCTTCAGGGGTTTCT	270	
QY	241	GATCGGTTCTCTGGCTCCAGTCTGGCAACACGGGCTCCCTGACCATCTCTGGGCTCCAG	300	
DB	271	AATCGGTTCTCTGGCTCCAAGTCTGGCAACACGGGCTCCCTGACCATCTCTGGGCTCCAG	330	
QY	301	GCTGAGGACGAGGCTGATTATTATTTACGTGTTGTTTCATATCAACACGATGACCTTTGTATTTC	360	
DB	331	GCTGAGGACGAGGCTGATTATTATTTACGTGAGCTCATATACAGCAGCGATATCTGGTGGTC	390	
QY	361	GGAAGAGGACCGGTTGACCGTCTCTAGGT	390	
DB	391	GGCGGAGGACCAAGCTGACCGTCTCTGGGT	420	

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RESULT 7
US-10-198-846-13540
; Sequence 13540, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND

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Query Match 79.9%; Score 311.6; DB 9; Length 420;  
Best Local Similarity 87.4%; Pred. No. 1.9e-93;  
Matches 341; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 ATGGCTTGAACTGTGCTCTGTCACCCCTCTCACTCAGGGCACAGAGATCTTGGGCTCAG 60









Search completed: July 15, 2003, 13:01:00  
Job time : 102.95 secs

Genome version 5.1.6  
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Warning: Index search failed

Run on July 15, 2003, 07:15:52, Search time 1529.5 Seconds  
(without alignments)  
6410.976 Million cell updates/sec

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Best Local Similarity 90.0%; Pred. No. 3e-83;  
Matches 351; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 1 ATGGCTTGACTCTGCTCTGTCACCTCTCACTCAGGGACAGGATCTGGGCTCAG 60  
DB |||||  
DB 34 ATGGCTGGGCTCTGCTATTCCTCACTCAGGGACAGGCTCTGGGCCAG 93  
QY 61 TCTGCCCGACTCAGCTCCCTCTGCTGCTGGGTCTCTGGACAGTCCGTCACCATCTCC 120  
DB |||||  
DB 94 TCTGCCCTGACTCAGCTCCCTCTGCTGCTGGGTCTCTGGACAGTCCGTCACCATCTCC 153  
QY 121 TGCACCTGGAACACGAGTACGCTGGGTGTTAATATGTTCTCTGGTACCAACACAC 180  
DB |||||  
DB 154 TGCACCTGGAACACGAGTACGCTGGGTGTTAATATGTTCTCTGGTACCAACACAC 213  
QY 181 CCAGCAAGACCCCAACTCATGATTTATGATGCTGCTAAGCGGCTCAGGGTCTCT 240  
DB |||||  
DB 214 CCAGCAAGACCCCAACTCATGATTTATGATGCTGCTAAGCGGCTCAGGGTCTCA 273  
QY 241 GATCGCTTCTCTGGCTCCCAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 300  
DB |||||  
DB 274 AATCGCTTCTCTGGCTCCCAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCAG 333  
QY 301 GCTGAGGACAGGCTGATTATTAATGTTTTCATATACCAACAGTAGCATTTGTTATTTC 360  
DB |||||  
DB 334 GCTGAGGACAGGCTGATTATTAATGTTTTCATATACCAAGTTTCAGTACTCGGGTGTTC 393  
QY 361 GGAAGAGGACCGGTTGACCGTCTTAGGT 390  
DB |||||  
DB 394 GCGGAGGAGGACGACTGACCGTCTTAGGT 423

RESULT 10  
US-10-198-846-13206/c  
; Sequence 13206, Application US/10198846  
; GENERAL INFORMATION:  
; APPLICANT: Lillie, James  
; APPLICANT: Xu, Yongyao  
; APPLICANT: Wang, Youzhen  
; APPLICANT: Steinmann, Kathleen  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS  
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; FILE REFERENCE: THERAPY OF BREAST CANCER  
; CURRENT APPLICATION NUMBER: US/10/198,846  
; PRIOR FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/306,220  
; NUMBER OF SEQ ID NOS: 2001-07-18  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13206  
; LENGTH: 1640  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-198-846-13206

Query Match 84.0%; Score 327.6; DB 41; Length 1640;  
Best Local Similarity 90.0%; Pred. No. 3.6e-83;  
Matches 351; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 1 ATGGCTTGACTCTGCTCTGTCACCTCTCACTCAGGGACAGGATCTGGGCTCAG 60  
DB |||||  
DB 1569 ATGGCTGGGCTCTGCTCTCTCTCAGCTCTCACTCAGGGACAGGATCTGGGCTCAG 1510  
QY 61 TCTGCCCGACTCAGCTCCCTCTGCTGCTGGGTCTCTGGACAGTCCGTCACCATCTCC 120  
DB |||||  
DB 1509 TCTGCCCTGACTCAGCTCCCTCAGTGTCCGGTCTCTCTGGACAGTCACTCACTCTCC 1450  
QY 121 TGCACCTGGAACACGAGTACGCTGGGTGTTAATATGTTCTCTGGTACCAACACAC 180  
DB |||||  
DB 1449 TGCACCTGGAACACGAGTACGCTGGGTGTTAATATGTTCTCTGGTACCAACAC 1390  
QY 181 CCAGCAAGACCCCAACTCATGATTTATGATGCTGCTAAGCGGCTCAGGGTCTCT 240

DB 1389 CCAGCAAGACCCCAACTCTCTATGATGCTCAGTAAAGCGGCTCAGGGTCTCT 1330  
QY 241 GATCGCTTCTGCTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 300  
DB |||||  
DB 1329 AATCGCTTCTGCTCTCAAGTCTGGCAACACGGCTCCCTGACAAATCTCTGGGCTCCAG 1270  
QY 301 GCTGAGGACAGGCTGATTATTAATGTTTTCATATACCAACAGTAGCATTTGTTATTTC 360  
DB |||||  
DB 1269 GCTGAGGATGAGGCTGATTATTAATGTTTTCATATGAGATAATAGCATTTGGGTGTTTC 1210  
QY 361 GGAAGAGGACCCCGTGTGACCGTCTTAGGT 390  
DB |||||  
DB 1209 GCGGAGGAGGACCAAGTGAACCGTCTTAGGT 1180

RESULT 11  
US-09-359-067-41768  
; Sequence 41768, Application US/09359067  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-747CON1  
; CURRENT APPLICATION NUMBER: US/09/359,067  
; CURRENT FILING DATE: 1999-07-22  
; EARLIER APPLICATION NUMBER: US 09/131,598  
; EARLIER FILING DATE: 1998-08-10  
; NUMBER OF SEQ ID NOS: 49786  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 41768  
; LENGTH: 465  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: (1)...(465)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-359-067-41768

Query Match 83.9%; Score 327.4; DB 17; Length 465;  
Best Local Similarity 91.3%; Pred. No. 2.9e-83;  
Matches 359; Conservative 0; Mismatches 31; Indels 3; Gaps 1;

QY 1 ATGGCTTGACTCTGCTCTGTCACCTCTCACTCAGGGACAGGATCTGGGCTCAG 60  
DB |||||  
DB 55 ATGGCTGGGCTCTGCTGCTCTCACTCAGGGACAGGCTCTGGGCCAG 114  
QY 61 TCTGCCCGACTCAGCTCCCTCTGCTGCTGGGTCTCTGGACAGTCCGTCACCATCTCC 120  
DB |||||  
DB 115 TCTGCCCTGACTCAGCTCCCTCTGCTGGGTCTCTGGACAGTCCGTCACCATCTCC 174  
QY 121 TGCACCTGGAACACGAGTACGCTGGGTGTTAATATGTTCTCTGGTACCAACACAC 180  
DB |||||  
DB 175 TGCACCTGGAACACGAGTACGCTGGGTGTTAATATGTTCTCTGGTACCAACACAC 234  
QY 181 CCAGCAAGACCCCAACTCATGATTTATGATGCTGCTAAGCGGCTCAGGGTCTCT 240  
DB |||||  
DB 235 CCAGCAAGACCCCAACTCATGATTTATGAGGTAGTAAATCGGCCCTCAGGGTCTCT 294  
QY 241 GATCGCTTCTGCTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 300  
DB |||||  
DB 295 AATCGTCTCTGCTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 354  
QY 301 GCTGAGGACAGGCTGATTATTAATGTTTTCATATACCAACAGTAGGACT---TTGTTA 357  
DB |||||  
DB 355 GCTGAGGACAGGCTGATTATTAATGAGCTCATATACCAACAGCAGCAGTCCCGTGTTA 414  
QY 358 TTCGAGGAGGACCCCGGTTGACCGTCTTAGGT 390  
DB |||||  
DB 415 TTCGCGGAGGAGCAAGCTGACCGTCTTAGGT 447



QY 241 GATCGCTTCTCTGGCTCCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 300  
Db |||||  
259 AATCGCTTCTCTGGCTCCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 318  
QY 301 GCTGAGGACGAGGCTGATTATTACTGTTGTTTATATACAAACAGTAGCATTGTTATTTC 360  
Db |||||  
319 GCTGAGGACGAGGCTGATTATTACTGTTGTTTATATACAAACAGTAGCATTGTTATTTC 378  
QY 361 GGAAGAGGACCGGTTGACCGTCTCTAGGT 390  
Db |||||  
379 GGAATGGGGCCCAAGGTACCGTCTCTATGT 408

## RESULT 15

US-09-332-782-36573  
; Sequence 36573, Application US/09332782A  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/332,782A  
; CURRENT FILING DATE: 1999-06-14  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 36573  
; LENGTH: 408  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-332-782-36573

Query Match 83.2%; Score 324.4; DB 17; Length 408;  
Best Local Similarity 89.5%; Pred No. 2e-82;  
Matches 349; Conservative 0; Mismatches 41; Indels 0; Gaps 0;  
QY 1 ATGGCTTGACTCTGCTCTCTGCTCACCCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
Db |||||  
19 ATGGCTTGAGCTCTGCTCTCTCACCCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 78  
QY 61 TCTGCCCCGACTCAGGCTCCCTCTGCTGCTGGGCTCTCTGGGACAGTCCGTCACCATCTCC 120  
Db |||||  
79 TCTGCCCCGACTCAGGCTCCCTCTGCTGCTGGGCTCTCTGGGACAGTCCGTCACCATCTCC 138  
QY 121 TGCACCTGGAACACGAGGATGACGCTGGTGGTTATTAATCTCTCTGGTACCAACACAC 180  
Db |||||  
139 TGCACCTGGAACACGAGGATGACGCTGGTGGTTATTAATCTCTCTGGTACCAACACAC 198  
QY 181 CCAGGCAAGCCCCCAACTCATGATTTATGATGCTGCTAAGCGGGCTCTAGGGGTCTCT 240  
Db |||||  
199 CCAGGCAAGCCCCCAACTCATGATTTATGATGCTGCTAAGCGGGCTCTAGGGGTCTCT 258  
QY 241 GATCGCTTCTCTGGCTCCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 300  
Db |||||  
259 AATCGCTTCTCTGGCTCCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 318  
QY 301 GCTGAGGACGAGGCTGATTATTACTGTTGTTTATATACAAACAGTAGCATTGTTATTTC 360  
Db |||||  
319 GCTGAGGACGAGGCTGATTATTACTGTTGTTTATATACAAACAGTAGCATTGTTATTTC 378  
QY 361 GGAAGAGGACCGGTTGACCGTCTCTAGGT 390  
Db |||||  
379 GGAATGGGGCCCAAGGTACCGTCTCTATGT 408

Search completed: July 15, 2003, 11:45:55  
Job time : 1532.5 secs



QY 3 GGCCTGGAAGTCTGCTCCTCGTCCACCTCTCTCACTCAGGSCACAGGATCCTGGGCTCAGTC 62  
Db 1 GGCCTGGGCTCTGCTATTCTCACCCTCTCTCACTCAGGSCACAGGATCCTGGGCTCAGTC 60  
QY 63 TCCCGGACTCAGCCTCCCTCTGTGTCTGGGTCTCTCGACAGTGGGTCAACCATCTCTCTG 122  
Db 61 TCCCTGACTCAGTCTGCTCGCTCGGTCTCTGGGTCTCTGGACAGTGGATCACCATCTCTCTG 120  
QY 123 CACTGGAACAGGATGAGTGGTGGTTATTAAGTATGCTCTCTGGTACCAACACACCC 182  
Db 121 CACTGGAACAGGATGAGTGGTGGTTATTAAGTATGCTCTCTGGTACCAACACACCC 180  
QY 183 AGGCAAGGCCCCCAACTCATGATTTATGATGTCGCTAAGCGGCTCAGGGGTCTCTGA 242  
Db 181 AGGCAAGGCCCCCAACTCATGATTTATGAGTTCAGTAATCGCCCTCAGGGGTCTCTAA 240  
QY 243 TCGCTTCTCTGGCTCCAGTCTGGCAACACGGCCCTCCCTGACCATCTCTGGGCTCAGGC 302  
Db 241 TCGCTTCTCTGGCTCCAGTCTGGCAACACGGCCCTCCCTGACCATCTCTGGGCTCAGGC 300  
QY 303 TCAGGACGAGGTGATTATTAAGTCTGTTATATACCAACAGTACGACTTGTATTGCG 362  
Db 301 TCAGGACGAGGTGATTATTAAGTCTGTTATATACCAACAGTACGACTTGTATTGCG 360  
QY 363 AAGAGGACCGGTTGACCGTCTTAGGT 390  
Db 361 AACTGGACCAAGGTACCGTCTTAGGT 388

## RESULT 2

US-60-475-872-2306  
; Sequence 2306, Application US/60475872  
; GENERAL INFORMATION:  
; APPLICANT: Randazzo, F. et al  
; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED  
; FILE REFERENCE: 18376.001  
; CURRENT APPLICATION NUMBER: US/60/475,872  
; CURRENT FILING DATE: 2003-06-03  
; NUMBER OF SEQ ID NOS: 9672  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2306  
; LENGTH: 557  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-60-475-872-2306

Query Match 82.3%; Score 321; DB 20; Length 557;  
Best Local Similarity 90.3%; Pred. No. 8.6e-86;  
Matches 355; Conservative 0; Mismatches 35; Indels 3; Gaps 1;  
QY 1 ATGGGCTGGAAGTCTGCTCCTCGTCCCTCACTCAGGSCACAGGATCCTGGGCTCAG 60  
Db 41 ATGGGCTGGAAGTCTGCTCCTCGTCCCTCACTCAGGSCACAGGATCCTGGGCTCAG 100  
QY 61 TCTGCCCCGACTCAGCCTCCCTCTGTGTCTGGGTCTCTGGACAGTGGTCAACCATCTCC 120  
Db 101 TCTGCCCCGACTCAGCCTCCCTCTGTGTCTGGGTCTCTGGACAGTGGTCAACCATCTCC 160  
QY 121 TGCACCTGGAACAGGATGAGTGGTGGTTATTAAGTATGCTCTCTGGTACCAACACCC 180  
Db 161 TGCACCTGGAACAGGATGAGTGGTGGTTATTAAGTATGCTCTCTGGTACCAACACCC 220  
QY 181 CCAGGCAAGGCCCCCAACTCATGATTTATGATGTCGCTAAGCGGCTCAGGGGTCTCT 240  
Db 221 CCAGGCAAGGCCCCCAACTCATGATTTATGATGTCGCTAAGCGGCTCAGGGGTCTCT 280  
QY 241 GATCGCTTCTCTGGTCCAAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCAG 300  
Db 281 ATGCGTCTCTCTGGTCCAAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCAG 340  
QY 301 GCTGAGGACGAGGTGATTATTAAGTCTGTTATATACCAACAGTACGACTTT---GTTA 357

Db 341 GCTGAGGACGAGGTGATTATTAAGTCTATATACCAAGCAGCAGTCTCGATGTC 400  
QY 358 TTCGGAAGAGGACCGGTTGACCGTCTTAGGT 390  
Db 401 TTCGGAAGTGGACCAAGGTACCGTCTTAGGT 433

## RESULT 3

PCT-US02-26584-13  
; Sequence 13, Application PC/TUS0226584  
; GENERAL INFORMATION:  
; APPLICANT: HOOPER, Craig  
; APPLICANT: DIETZSCHOLD, Bernhard  
; TITLE OF INVENTION: Recombinant Antibodies, and Compositions  
; FILE REFERENCE: 8321-110 PC  
; CURRENT APPLICATION NUMBER: PCT/US02/26584  
; CURRENT FILING DATE: 2002-08-21  
; PRIOR APPLICATION NUMBER: US 60/314,023  
; PRIOR FILING DATE: 2001-08-21  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 726  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US02-26584-13

Query Match 80.3%; Score 313.2; DB 1; Length 726;  
Best Local Similarity 88.9%; Pred. No. 2e-83;  
Matches 352; Conservative 0; Mismatches 38; Indels 6; Gaps 1;  
QY 1 ATGGCCTGGACTCTGCTCCTCGTCAACCTCTCTCACTCAGGSCACAGGATCCTGGGCTCAG 60  
Db 16 ATGGCCTGGGCTCTGCTCCTCTCACTCAGGCTCTCTCACTCAGGSCACAGGATCCTGGGCTCAG 75  
QY 61 TCTCCCCGACTCAGCCTCCCTCTGTGTCTGGGTCTCTCGACAGTGGTCAACCATCTCC 120  
Db 76 TCTCCCCGACTCAGCCTCCCTCTGTGTCTGGGTCTCTCGACAGTGGTCAACCATCTCC 135  
QY 121 TGCACCTGGAACAGGATGAGTGGTGGTTATTAAGTATGCTCTCTGGTACCAACACCC 180  
Db 136 TGCACCTGGAACAGGATGAGTGGTGGTTATTAAGTATGCTCTCTGGTACCAACACCC 195  
QY 181 CCAGGCAAGGCCCCCAACTCATGATTTATGATGTCGCTAAGCGGCTCAGGGGTCTCT 240  
Db 196 CCAGGCAAGGCCCCCAACTCATGATTTATGATGTCGCTAAGCGGCTCAGGGGTCTCT 255  
QY 241 GATCGCTTCTCTGGTCCAAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCAG 300  
Db 256 GATCGCTTCTCTGGTCCAAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCAG 315  
QY 301 GCTGAGGACGAGGTGATTATTAAGTCTGTTATTAAGTATGCTCTCTGGTACCAACACCC 354  
Db 316 GCTGAGGATGAGGTGATTATTAAGTCTGTTATTAAGTATGCTCTCTGGTACCAACACCC 375  
QY 355 TTATTCCGAGAGGACCGGTTGACCGTCTTAGGT 390  
Db 376 GTTTTCGGGAGGAGGACCAAGCTACCGTCTTAGGT 411

## RESULT 4

US-10-225-108A-13  
; Sequence 13, Application US/10225108A  
; GENERAL INFORMATION:  
; APPLICANT: HOOPER, Craig  
; APPLICANT: DIETZSCHOLD, Bernhard  
; TITLE OF INVENTION: Recombinant Antibodies, and Compositions  
; FILE REFERENCE: 8321-110  
; CURRENT APPLICATION NUMBER: US/10/225.108A  
; CURRENT FILING DATE: 2003-04-10



Db 289 GATCGCTTCTCTGGTCCAAAGTCTGGCAACACGGCTCCCTGACCATTCTCTGGGCTCCAG 348  
QY 301 GCTGAGGACGAGCTGATTATTACTGTTGTTTCATATACAAACAGTAGCACTTT 353  
Db 349 GCTGAGGATGAGCGTGATTATTACTGCTCTCATATGACGAGCTACACTTT 401

## RESULT 7

US-10-310-673-1183  
; Sequence 1183, Application US/10310673  
; GENERAL INFORMATION:  
; APPLICANT: Garcia, Pablo  
; APPLICANT: Escobedo, Jaime  
; APPLICANT: Lamson, George  
; APPLICANT: Randazzo, Filippo  
; APPLICANT: Moler, Edward  
; APPLICANT: Klinger, Julie  
; APPLICANT: Janatpour, Mary Jo  
; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED  
; FILE REFERENCE: 18095.002  
; CURRENT APPLICATION NUMBER: US/10/310,673  
; CURRENT FILING DATE: 2002-12-04  
; PRIOR APPLICATION NUMBER: 60/336,613  
; PRIOR FILING DATE: 2001-12-04  
; NUMBER OF SEQ ID NOS: 2164  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1183  
; LENGTH: 562  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-310-673-1183

Query Match 79.8%; Score 311.4; DB 14; Length 562;  
Best Local Similarity 88.8%; Pred. No. 6.6e-83;  
Matches 349; Conservative 0; Mismatches 41; Indels 3; Gaps 1;

QY 1 ATGGCTTGACCTGCTCTCGTCCCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
Db 25 ATGGCTTGGCTCTGCTATTCTCCCTCACTCAGGGCACAGGCTCTGGGCCAG 84  
QY 61 TCTGCCCGACTCAGCTCCCTCTGTGTCTGGGTCTCTGGACAGTGGGTACCATCTCC 120  
Db 85 TCTGCCCTGACTCAGCTCCCTCCGTCTGGGTCTCTGGACAGTGGGTACCATCTCC 144  
QY 121 TGCACCTGGACACGAGTACGCTTGGTGTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 240  
Db 145 TGCACCTGGATCATCAGTACGCTTGGTGTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 264  
QY 181 CCAGGCAAGCCCCCAACTCATGATTTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 300  
Db 205 CCAGGCAAGCCCCCAACTCATGATTTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 324  
QY 241 GATCGCTTCTGGTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 357  
Db 265 AGTCGCTTCTGGTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 384  
QY 301 GCTGAGGACGAGCTGATTATTACTGTTGTTTATATACAAACAGTAGCACTTT---GTTA 357  
Db 325 GCTGAGGACGAGCTGATTATTATTGTCAGTTTCTCTGGGCTCCTGAGGAGCTCTCTGGGCTA 384  
QY 358 TTGCGGAGGAGGACCGGTTGACCGTCTTAGGT 390  
Db 385 TTGCGGAGGAGGACCAAGCTGACCGTCTTAGGT 417

## RESULT 8

US-60-475-872-1675  
; Sequence 1675, Application US/60475872  
; GENERAL INFORMATION:  
; APPLICANT: Randazzo, F. et al  
; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED  
; FILE REFERENCE: 1675  
; CURRENT APPLICATION NUMBER: US/60/475,872  
; CURRENT FILING DATE: 2003-03-17  
; NUMBER OF SEQ ID NOS: 42514  
; SEQ ID NO 1675  
; LENGTH: 562  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-60-475-872-1675

; FILE REFERENCE: 18376.001  
; CURRENT APPLICATION NUMBER: US/60/475,872  
; CURRENT FILING DATE: 2003-06-03  
; NUMBER OF SEQ ID NOS: 9672  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1675  
; LENGTH: 562  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-60-475-872-1675

Query Match 79.8%; Score 311.4; DB 20; Length 562;  
Best Local Similarity 88.8%; Pred. No. 6.6e-83;  
Matches 349; Conservative 0; Mismatches 41; Indels 3; Gaps 1;  
QY 1 ATGGCTTGAGCTCTGCTCTCGTCCCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
Db 25 ATGGCTTGGCTCTGCTATTCTCCCTCACTCAGGGCACAGGCTCTGGGCCAG 84  
QY 61 TCTGCCCGACTCAGCTCCCTCTGTGTCTGGGTCTCTGGACAGTGGGTACCATCTCC 120  
Db 85 TCTGCCCTGACTCAGCTCCCTCGTGTCTGGGTCTCTGGACAGTGGGTACCATCTCC 144  
QY 121 TGCACCTGGAAACGAGTACGCTTGGTGTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 180  
Db 145 TGCACCTGGATCATCAGTACGCTTGGTGTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 204  
QY 181 CCAGGCAAGCCCCCAACTCATGATTTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 240  
Db 205 CCAGGCAAGCCCCCAACTCATGATTTATGATGTCGTTAAGCGGCTCAGGGGTCTCT 264  
QY 241 GATCGCTTCTGGTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 300  
Db 265 AGTCGCTTCTGGTCTCAAGTCTGGCAACACGGCTCCCTGACCATCTCTGGGCTCCAG 324  
QY 301 GCTGAGGACGAGCTGATTATTACTGTTGTTTATATACAAACAGTAGCACTTT---GTTA 357  
Db 325 GCTGAGGACGAGCTGATTATTATTGTCAGTTTCTCTGGGCTCCTGAGGAGCTCTCTGGGCTA 384  
QY 358 TTGCGGAGGAGGACCGGTTGACCGTCTTAGGT 390  
Db 385 TTGCGGAGGAGGACCAAGCTGACCGTCTTAGGT 417

## RESULT 9

US-10-170-235-35247  
; Sequence 35247, Application US/10170235  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig  
; TITLE OF INVENTION: KITS, SUCH AS NUCLEIC ACID ARRAYS, COMPRISING A MAJORITY OF HUMAN  
; TRANSCRIPTS, FOR DETECTING EXPRESSION AND OTHER USES THEREOF  
; FILE REFERENCE: CL001380  
; CURRENT APPLICATION NUMBER: US/10/170,235  
; CURRENT FILING DATE: 2003-03-17  
; NUMBER OF SEQ ID NOS: 42514  
; SEQ ID NO 35247  
; LENGTH: 533  
; TYPE: DNA  
; ORGANISM: HUMAN  
US-10-170-235-35247

Query Match 79.4%; Score 309.8; DB 15; Length 533;  
Best Local Similarity 92.4%; Pred. No. 2e-82;  
Matches 326; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGGCTTGAGCTCTGCTCTCGTCAACCCCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 60  
Db 34 ATGGCTTGGGCTCTGCTCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 93  
QY 61 TCTGCCCGACTCAGCTCCCTCTGTGTCTGGGTCTCTGGACAGTGGGTACCATCTCC 120  
Db 94 TCTGCCCTGACTCAGCTCCCTCTCGGTCTCTGGACAGTGGGTACCATCTCC 153





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; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28418
; LENGTH: 1636
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-28418

Query Match      78.3%; Score 305.4; DB 13; Length 1636;
Best Local Similarity 89.2%; Pred. No. 5.6e-81;
Matches 354; Conservative 0; Mismatches 36; Indels 7; Gaps 2;

Qy 1 ATGGCTGGACTCTGCTCTCGTCACCTCCCTCACTCAGGGCACAGGATCCTGGGCTCAG 60
Db 60 ATGGCTGGGCTCTGCTCTCCTCACTCAGGGCACAGGATCCTGGGCTCAG 119
Qy 61 TCTGCCCGACTCAGGCTCCCTCTGTCTGGGTCTCTGGACAGTGGTCAACATCTCC 120
Db 120 TCTGCCCTGACTCAGGCTCCCTCCGTGTCTGGGTCTCTTGGACAGTTCGATCACCATCTCC 179
Qy 121 TGCACCTGGAACACGAGTACGCTGTGGTGTATAA-CATATGCTCTCTGTACCAACACA 179
Db 180 TGCACCTGGAACACGAGTACGCTGTGGGTGTATAACCTATGCTCTCTGTATCAACAACA 239
Qy 180 CCCAGCAAGCCCCCAACTCATGATTTATGATGCTGCTAAGCGGGCTCAGGGGTCTC 239
Db 240 CCCAGCAAGCCCCCAACTCATGATTTATGATGCTGCTAAGCGGGCTCAGGGGTCTC 299
Qy 240 TGATGCTTCTCTGGCTCAAGTCTGGCAACAGGCTCCCTGACATCTCTGGGCTCA 299
Db 300 TAATCGCTTCTCTGGCTCAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCCA 359
Qy 300 GCTGAGGACGAGGTGATTATTACTGTGTTTCATATACCAACACAGTAGCACT- ----TT 353
Db 360 GCTGAGGACGAGGTGATTATTACTGTGCTCATATACCAACAGTAGCACTCTCTTATT 419
Qy 354 GTTATTCCGAAGGAGGACCGGTTGACCGTCTAGGT 390
Db 420 TGTCTTCGGAACCTGGGACCAAGGTACCGTCTAGGT 456

RESULT 13
US-10-310-673-629
; Sequence 629, Application US/10310673
; GENERAL INFORMATION:
; APPLICANT: Garcia, Pablo
; APPLICANT: Escobedo, Jaime
; APPLICANT: Lamson, George
; APPLICANT: Randazzo, Filippo
; APPLICANT: Moler, Edward
; APPLICANT: Klinger, Julie
; APPLICANT: Janatpour, Mary Jo
; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
; FILE REFERENCE: 18095.002
; CURRENT APPLICATION NUMBER: US/10/310,673
; CURRENT FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/336,613
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 2164
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 629
; LENGTH: 405
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-310-673-629

Query Match      78.3%; Score 305.2; DB 14; Length 405;
Best Local Similarity 92.0%; Pred. No. 4.3e-81;
Matches 322; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy 1 ATGGCTGGACTCTGCTCTCGTCACCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 60
Db 40 ATGGCTGGGCTCTGCTCTCCTCAGGCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 99
Qy 61 TCTGCCCGACTCAGGCTCCCTCTGTCTGGGTCTCTTGACAGTGGTCAACATCTCC 120
Db 100 TCTGCCCTGACTCAGGCTCGCTCAGTGTCCGGGTCTCTTGACAGGAGTCAACATCTCC 159
Qy 121 TGCACCTGGAACACGAGTACGCTTGGTGGTTATAAATGCTCTCTGTATCAACACAC 180
Db 160 TGCACCTGGAACACGAGTACGCTTGGTGGTTATCACTATGCTCTCTGTATCAACAC 219
Qy 181 CCAGGCAAGCCCCCAAACTCATGATTTATGATGCTCGTAAGCGGGCTCAGGGGTCTCT 240
Db 220 CCAGGCAAGCCCCCAAAATTCATGATTTATGATGCTAAGCGGGCTCAGGGGTCTCT 279
Qy 241 GATCGCTTCTGCTGCTCCAAAGTCTGGCAACACAGGCTCCCTGACCATCTCTGGGCTCCAG 300
Db 280 GATCGCTTCTGCTGCTCCAAAGTCTGGCAACACAGGCTCCCTGACCATCTCTGGGCTCCAG 339
Qy 301 GCTGAGGACGAGGTGATTATTACTGTGTTTCATATACCAACAGTAGCAC 350
Db 340 GCTGAGGATGAGGTGATTATTACTGTGCTCATATGACGAGGAGTACAC 389

RESULT 14
US-60-475-872-552
; Sequence 552, Application US/60475872
; GENERAL INFORMATION:
; APPLICANT: Randazzo, F. et al
; TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
; FILE REFERENCE: 18376.001
; CURRENT APPLICATION NUMBER: US/60/475,872
; CURRENT FILING DATE: 2003-06-03
; NUMBER OF SEQ ID NOS: 9672
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 552
; LENGTH: 405
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-475-872-552
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Query Match      78.3%; Score 305.2; DB 20; Length 405;
Best Local Similarity 92.0%; Pred. No. 4.3e-81;
Matches 322; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

Qy 1 ATGGCTGGACTCTGCTCTCGTCACCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 60
Db 40 ATGGCTGGGCTCTGCTCTCCTCAGGCTCTCACTCAGGGCACAGGATCCTGGGCTCAG 99
Qy 61 TCTGCCCGACTCAGGCTCCCTCTGTCTGGGTCTCTTGACAGTGGTCAACATCTCC 120
Db 100 TCTGCCCTGACTCAGCTCGCTCAGTGTCCGGGTCTCTTGACAGGAGTCAACATCTCC 159
Qy 121 TGCACCTGGAACACGAGTACGCTTGGTGGTTATAAATGCTCTCTGTATCAACACAC 180
Db 160 TGCACCTGGAACACGAGTACGCTTGGTGGT-TATCACTATGCTCTCTGTATCAACAC 219
Qy 181 CCAGGCAAGCCCCCAAACTCATGATTTATGATGCTCGTAAGCGGGCTCAGGGGTCTCT 240
Db 220 CCAGGCAAGCCCCCAAAATTCATGATTTATGATGCTAAGCGGGCTCAGGGGTCTCT 279
```









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1  ACT SEQUENCE INFORMATION:
2  NAME: BERNI, BARBARA G
3  REFERENCE NUMBER: 10,177
4  REFERENCE/DEPOSIT NUMBER: 1004 118
5  TITLE: "MIMICRY" INFORMATION:
6  TELEPHONE: 202-741-6040
7  TELEFAX: 202-741-6041
8  E-MAIL: B. BERNI@NIDDK.NIH.GOV
9  ADDRESS: BARBARA BERNI, NIDDK
10  ADDRESS: 301 FIVE FIVE FIVE
11  ADDRESS: 10000
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APPLICATION NUMBER: US 60/028,897  
FILING DATE: 21-OCT-1996  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 333 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
CLONE: 1C/2D  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..333  
US-08-958-201-13

Query Match 70.6%; Score 275.4; DB 2; Length 333;  
Best Local Similarity 89.2%; Pred. No. 1.8e-72;  
Matches 297; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

QY 58 CAGTCTGCCCGGACTCAGCCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCACCATC 117  
DB 1 CAGTCTGCTCTGACTCAGCCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGATCACCATC 60  
QY 118 TCCTGCACCTGGAACACGAGTCGATGCTGTGGTGTATTAATATGCTCTCTGGTACCAACAC 177  
DB 61 TCCTGCACCTGGAACACGAGTCGATGCTGTGGTGTATTAATATGCTCTCTGGTACCAACAG 120  
QY 178 CACCCAGGCAAGCCCCCAACTCATGATTTATGATGTCGCTAAGGGCCCTCAGGGGTC 237  
DB 121 CACCCAGGCAAGCCCCCAACTCATGATTTTGTAGGTCAGTAATCGGGCCCTCAGGGGTT 180  
QY 238 TCTGATCGCTTCTCTGGCTCCAGTCTGCAACAGCGCTCCCTGACCATCTCTGGGTC 297  
DB 181 CTTAATCGCTTCTCAGGCTCCAGTCTGCAACAGCGCTCCCTGACCATCTCTGGGTC 240  
QY 298 CAGGCTGAGGACGAGCTGATTATTACTGTGTTATATATACACAGTAGCATTGTTA 357  
DB 241 CAGGCTGAGGACGAGCTGATTATTACTGAGCTCACTTACACGAGAGTCACTGTGATC 300  
QY 358 TTCGGAAGAGGACCGGTTGACCGTCTAGGT 390  
DB 301 TTCGGCGGAGGACCAAGCTGACCGTCTAGGT 333

## RESULT 6

US-08-958-201-11  
Sequence 11, Application US/08958201  
Patent No. 5977319

GENERAL INFORMATION:  
APPLICANT: Pope, Anthony R  
APPLICANT: Pritchard, Kevin  
APPLICANT: Williams, Andrew J  
APPLICANT: Johnson, Kevin S  
TITLE OF INVENTION: Specific binding members for estradiol;  
TITLE OF INVENTION: materials and methods  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall O'Toole Gerstein Murray & Borun  
STREET: 6300 Sears Tower, 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/958,201  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/028,897

FILING DATE: 21-OCT-1996  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 333 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
CLONE: D12 (light chain)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..333  
US-08-958-201-11

Query Match 70.2%; Score 273.8; DB 2; Length 333;  
Best Local Similarity 88.9%; Pred. No. 5.5e-72;  
Matches 296; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

QY 58 CAGTCTGCCCGGACTCAGCCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCACCATC 117  
DB 1 CAGTCTGCTCTGACTCAGCCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGATCACCATC 60  
QY 118 TCCTGCACCTGGAACACGAGTCGATGCTGTGGTGTATTAATATGCTCTCTGGTACCAACAC 177  
DB 61 TCCTGCACCTGGAACACGAGTCGATGCTGTGGTGTATTAATATGCTCTCTGGTACCAACAG 120  
QY 178 CACCCAGGCAAGCCCCCAACTCATGATTTATGATGTCGCTAAGGGCCCTCAGGGGTC 237  
DB 121 CACCCAGGCAAGCCCCCAACTCATGATTTTGTAGGTCAGTAATCGGGCCCTCAGGGGTT 180  
QY 238 TCTGATCGCTTCTCTGGCTCCAGTCTGGAACACAGCGCTCCCTGACCATCTCTGGGTC 297  
DB 181 CTTAATCGCTTCTCAGGCTCCAGTCTGGAACAGCGCTCCCTGACCATCTCTGGGTC 240  
QY 298 CAGGCTGAGGACGAGCTGATTATTACTGTGTTATATATACACAGTAGCATTGTTA 357  
DB 241 CAGGCTGAGGACGAGCTGATTATTACTGAGCTCACTTACACGAGAGTCACTGTGATC 300  
QY 358 TTCGGAAGAGGACCGGTTGACCGTCTAGGT 390  
DB 301 TTCGGCGGAGGACCAAGCTGACCGTCTAGGT 333

## RESULT 7

US-09-240-274-137  
Sequence 137, Application US/09240274  
Patent No. 6255455

GENERAL INFORMATION:  
APPLICANT: Siegel, Donald L.  
TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL  
TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF  
FILE REFERENCE: 09596-4202  
CURRENT APPLICATION NUMBER: US/09/240,274  
CURRENT FILING DATE: 1999-01-29  
EARLIER APPLICATION NUMBER: 60/081,380  
EARLIER FILING DATE: 1998-04-10  
EARLIER APPLICATION NUMBER: 60/028,550  
EARLIER FILING DATE: 1996-10-11  
NUMBER OF SEQ ID NOS: 224  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 137  
LENGTH: 324  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: anti-Rh(D) chain R01  
US-09-240-274-137

Query Match 61.4%; Score 239.6; DB 4; Length 324;  
Best Local Similarity 86.8%; Pred. No. 7e-62;  
Matches 276; Conservative 0; Mismatches 39; Indels 3; Gaps 1;

QY 70 ACTCAGCCTCCCTCTGTGTCCTGGTCTCTGGACAGTCGGTCACCATCTCTGCACTGGA 129









Db 10 ACTGAGCTCCCTCCGCTGCTGCGTCTCTCGGACAGTCGATCACCATTCTCTGTCAG---- 65  
QY 130 ACCAGGATGAGTGGTGGTATTAACCTGCTCTGATCAACACACACACAGGCAAA 189  
Db 66 -----TGATGTTGGGAATTATAACCTTGCTCTGATCAACAGTACCAGGCAAG 117  
QY 190 GCCCCAACTCATGATTATGATGTCGCTAAGCGGCTCAGGGGTCTCTGATCGCTTC 249  
Db 118 GCCCCAACTCATGATTATGAGGCGAGTAAGCGGCTCAGGGGTCTCTGATCGCTTC 177  
QY 250 TCTGGCTCAAGTCTGGCAACAGGCTCCCTGACCATCTCTGGGCTCAGGCTGAGGAC 309  
Db 178 TCTGGCTCAGGCTCTGGCAACAGGCTCCCTGACCAATCTCTGGGCTCAGGCTGAGGAC 237  
QY 310 GAGGCTGATTACTGTTGTTTCATATACACAGTAGCACTTGTATTTCGGAAGGG 369  
Db 238 GAGGCTGATTACTGTTGTTTCATATACAGTAGCACTTGTATTTCGGAAGGG 294  
QY 370 ACCCGGTTGACCGTCTCTA 387  
Db 295 ACCAAGTACCGTCTCTA 312

RESULT 14  
US-08-345-321-3  
; Sequence 3, Application US/08345321  
; Patent No. 5914109  
; GENERAL INFORMATION:  
; APPLICANT: ZOLLA-PAZNER, Susan  
; TITLE OF INVENTION: HETEROHYBRIDOMAS PRODUCING HUMAN  
; TITLE OF INVENTION: MONOCLONAL ANTIBODIES TO HIV-1  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Browdy and Neimark  
; STREET: 419 Seventh Street, N.W., Suite 300  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/345,321  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION NUMBER: US/07/872,675  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Browdy, Roger L.  
; REGISTRATION NUMBER: 25,618  
; REFERENCE/DOCKET NUMBER: ZOLLA-PAZNER1B  
; TELEPHONE: 202-628-5197  
; TELEFAX: 202-737-3528  
; TELEX: 248633  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 396 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..396  
US-08-345321-3

Query Match 49.9%; Score 194.8; DB 2; Length 396;

Best Local Similarity 72.0%; Pred. No. 1.3e-48;  
Matches 285; Conservative 0; Mismatches 102; Indels 9; Gaps 2;  
QY 1 ATGCGCTGGACTGCTGCTCCTCGTCACCTCTCTCACTCAGGCGACAGGATCCTGGGCTCAG 60  
Db 1 ATGCGCGGCTCCCT 60  
QY 61 TCTCCCCGACTCAGCGCTCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120  
Db 61 TCTGTTGAGCGACGCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120  
QY 121 TGCATCGAACCAGCGATGACGTTGGTGTATTAATCTCTCTGCTGCTGCTGCTGCTGCTGCT 180  
Db 121 TGCTCTGGAAGCAGCTCCAACT--TCCCAATAATTATGTTATGTTGTTGTTGTTGTTGTTGTT 177  
QY 181 CCAGGCAAGCCCCCAACTCATGATTATGATGCTGCTAAGCGGCTCTCAGGGGTCTCT 240  
Db 178 CCAGGCAAGCCCCCAACT 237  
QY 241 GATCGTTCTCTGCTCCAACTGCTGCAACAGCGCTCCCTGACCATCTCTGCGCTCCAG 300  
Db 238 GACCGATTCTCTGCTCCAACTGCTGCAACAGCGCTCCCTGACCATCTCTGCGCTCCAG 297  
QY 301 GCTGAGCAGGCTGATTATTAATCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 354  
Db 298 ACTGGGACGAGGCGGATTATTTCTGCGCAACATGGGATAGCGGCTGAGTGCTGATTGG 357  
QY 355 TTATTCGGAAGAGGAGCGGCTGCTGACCTCTAGGT 390  
Db 358 GTGTTGCGGAGGAGCAAGCTGACCGTCTTAAGT 393  
RESULT 15  
US-08-487-550-9  
; Sequence 9, Application US/08487550  
; Patent No. 6113898  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, Darrell R.  
; TITLE OF INVENTION: "MONKEY MONOCLONAL ANTIBODIES SPECIFIC  
; TITLE OF INVENTION: TO HUMAN B7.1 AND/OR B7.2 PRIMATIZED FORMS THEREOF.  
; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITIONS CONTAINING, AND USE THEREOF AS  
; TITLE OF INVENTION: IMMUNOSUPPRESSANTS"  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS  
; STREET: 699 Prince Street  
; CITY: Alexandria  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22314  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/487,550  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Teskin, Robin L.  
; REGISTRATION NUMBER: 35,030  
; REFERENCE/DOCKET NUMBER: 012712-131  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-836-6620  
; TELEFAX: 703-836-2021  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 711 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: not relevant  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

























Search completed: July 15, 2003, 10:00:26  
Job time : 1420.14 secs











[illegible]









[illegible]



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us-09-292-053-3.rng

us-09-292-053-3.rng

us-09-292-053-3.rng

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11	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
12	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
13	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
14	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
15	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
16	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
17	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
18	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
19	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
20	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
21	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
22	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
23	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
24	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
25	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
26	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
27	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
28	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
29	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
30	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
31	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
32	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
33	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
34	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
35	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
36	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
37	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
38	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
39	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
40	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
41	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
42	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
43	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
44	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)
45	298.2	70.5	423	14	AAQ35603	Anti-CD3 monoclonal antibody (first entry)

ALIGNMENT

RESULT 1	
AAV31308	AAV31308 standard: DNA; 423 bp
AC	AAV31308;
XX	18-NOV 1998 (first entry)
DE	Anti human CD3 6G5 monoclonal antibody (first entry)
XX	Anti human CD3 6G5 monoclonal antibody (first entry)
KW	Anti human CD3 6G5 monoclonal antibody (first entry)
KW	Human CD3; 18E; FcR1/CD3; gamma 1 constant region
KW	gamma-1 constant region; allergy; inflammatory; autoimmune; allergic
XX	Macaca fascicularis
XX	Macaca fascicularis
XX	Key
FT	CDS
FT	Location/Qualifiers
FT	1..423
FT	/tag= a
FT	/product= "anti-human CD3 6G5 heavy chain variable region"
FT	/note= "CDS does not contain a stop codon"
FT	sig_peptide
FT	1..57
FT	/tag= b
FT	mat_peptide
FT	58..423
FT	/tag= c
FT	misc_feature
FT	148..165
FT	/tag= d
FT	/note= "encodes TCR alpha 1"
FT	misc_feature
FT	208..258
FT	/tag= e

Anti human CD3 6G5 monoclonal antibody (first entry)

SNOWMAPS

Result	Ref	Seq	Seq	Seq	Description
1	423	14	423	19	AAV31304
2	423	14	143	18	AAV32513
3	423	14	143	19	AAV35449
4	423	14	143	24	AAV37247
5	423	14	423	21	AAZ19311
6	423	14	423	18	AAV28444
7	423	14	423	18	AAV28459
8	423	14	423	18	AAV28275
9	423	14	423	21	AAZ19315

/note= "encodes CDR 2 region"

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FT XX WO9837099-A1.
PN PD 27-AUG-1998.
XX PF 17-FEB-1998; 98WO-US02253.
XX PR 05-FEB-1998; 98US-0803085.
XX PR 20-FEB-1997; 97US-0803085.
XX PA (IDEC-) IDEC PHARM CORP.
XX PA (SEKG ) SEIKAGAKU CORP.
XX PI Klotzer WS, Nakamura T, Reff ME;
XX WPI; 1998-467495/40.
DR P-PSDB; AAW70378.
XX
XX New anti-human CD23 monoclonal antibody - used for inhibiting IgE
PT expression to treat or prevent allergic, inflammatory and
PT auto:immune conditions
XX
PS Example 1; Pages 104-106; 146pp; English.
XX
CC The present sequence represents a DNA sequence encoding the heavy
CC chain variable region of primate monoclonal antibody anti-human CD23 6G5.
CC The invention provides primate monoclonal antibodies which specifically
CC bind human CD23, the low affinity receptor for IgE (FcεRI/CD23),
CC and comprise either of a human gamma-1 or human gamma-3 constant region
CC that binds to human Fc gamma receptors and inhibits IgE expression.
CC The monoclonal antibodies of the invention are claimed to be useful
CC for inhibiting induced IgE production for treating or preventing
CC allergic, inflammatory and autoimmune conditions e.g. allergic rhinitis
CC conjunctivitis, autoimmune haemolytic anaemia, etc.
XX
SQ Sequence 423 BP; 83 A; 128 C; 122 G; 90 T; 0 other;

Query Match 100.0%; Score 423; DB 19; Length 423;
Best Local Similarity 100.0%; Pred. No. 6.5e-100;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAAACACCTGTGGTTCTTCTCTCTGTTGGCAGCTCCAGATGGGTCTGTCCAG 60
DB 1 ATGAAACACCTGTGGTTCTTCTCTCTCTGTTGGCAGCTCCAGATGGGTCTGTCCAG 60
QY 61 CTCAGCTGCAGAGTCGGGCCAGGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120
DB 61 CTCAGCTGCAGAGTCGGGCCAGGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120
QY 121 TGGCGTGTCTCTGGTGGCTCTGTACAGCAGTAGTAACCTGTGACCTGGATCCGCCAGGCC 180
DB 121 TGGCGTGTCTCTGGTGGCTCTGTACAGCAGTAGTAACCTGTGACCTGGATCCGCCAGGCC 180
QY 181 CCAGGGAAGGAGCTGGAGTGGATGGACGTATCTCTGTGTAGTGGTGGGCCACCAACTAC 240
DB 181 CCAGGGAAGGAGCTGGAGTGGATGGACGTATCTCTGTGTAGTGGTGGGCCACCAACTAC 240
QY 241 AACCCGTCCTCAAGAGTCAGTCATCATTTACAAGACACGTCCAGAACCAAGTCTCC 300
DB 241 AACCCGTCCTCAAGAGTCAGTCATCATTTACAAGACACGTCCAGAACCAAGTCTCC 300
QY 301 CTGAACCTCAACTCTGTGACCGCGGACACGGCGGTGTATTACTGTGCCAGAGATTGG 360
DB 301 CTGAACCTCAACTCTGTGACCGCGGACACGGCGGTGTATTACTGTGCCAGAGATTGG 360
QY 361 GCCCAATAGCTGGAAACAACGTAGGCTTTCTGGGCCACGGAGTCTGTGTACCGTCTCC 420
DB 361 GCCCAATAGCTGGAAACAACGTAGGCTTTCTGGGCCACGGAGTCTGTGTACCGTCTCC 420
QY 421 TCA 423
DB 421 TCA 423

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RESULT 2
AAT62513
ID AAT62513 standard; DNA; 1431 BP.
XX AC AAT62513;
XX DT 25-MAY-1997 (first entry)
XX DE Primatised anti-human B7.1 antigen antibody 16C10 heavy chain DNA.
XX KW Monoclonal antibody; cynomolgus monkey; macaque; 16C10;
KW primatised antibody; B7 antigen; CD28; immunosuppressive;
KW autoimmune disease; idiopathic thrombocytopenia purpura;
KW systemic lupus erythematosus; rheumatoid arthritis; psoriasis;
KW type 1 diabetes mellitus; graft versus host disease;
KW hetero-hybridoma; transfectoma; ss.
XX OS Chimeric Macaca cynomolgus;
OS OS Chimeric Homo sapiens.
XX PN WO9640878-A1.
XX PD 19-DEC-1996.
XX PF 06-JUN-1996; 96WO-US10053.
XX PR 07-JUN-1995; 95US-0487550.
XX PA (IDEC-) IDEC PHARM CORP.
XX PI Anderson DR, Brame P, Hanna N, Shostowsky WS;
XX WPI; 1997-108638/10.
XX DR P-PSDB; AAW01822.
XX PT Monkey monoclonal antibody binding human B7.1 or B7.2 antigen -
XX useful for treating autoimmune disease or graft-versus-host disease
XX Claim 11; Fig 10B; 81pp; English.
XX
XX 2 DNA sequences (AAT62512 and AAT62513) respectively code for
XX primatised forms (AAW01821 and AAW01822) of the light and heavy chains
XX of cynomolgus monkey anti-human B7.1 antigen monoclonal antibody
XX 16C10. Cloned 16C10 light and heavy variable genes are inserted
XX into an expression vector (pRef. NEOSPLA) which contains human light
XX and heavy chain constant region genes to allow prodn. of primatised
XX antibody in e.g. CHO cells. Primatised 7C10 and 7B6 anti-B7.1
XX primatised antibodies have also been produced (see also AAW01817-20). The
XX primatised antibodies inhibit the B7:CD23 pathway, making them
XX useful immunosuppressants for the treatment of autoimmune disorders
XX and graft-versus-host disease.
XX
SQ Sequence 1431 BP; 319 A; 462 C; 385 G; 265 T; 0 other;

Query Match 74.0%; Score 313.2; DB 18; Length 1431;
Best Local Similarity 84.5%; Pred. No. 2.1e-71;
Matches 370; Conservative 0; Mismatches 53; Indels 15; Gaps 1;

QY 1 ATGAAACACCTGTGGTTCTTCTCTCTCTGTGGCAGTCCAGATGGGTCTGTCCAG 60
DB 1 ATGAAACACCTGTGGTTCTTCTCTCTCTGTGGCAGTCCAGATGGGTCTGTCCAG 60
QY 61 CTGAGCTGCAGAGTCCGGGCCAGGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120
DB 61 GTGAGCTGCAGAGTCCGGGCCAGGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120
QY 121 TGGCGTGTCTCTGGTGGCTCTGTGTCAGCAGTAGTAACCTGTGACCTGGATCCGCCAGGCC 180
DB 121 TGGCGTGTCTCTGGTGGCTCTGTGTCAGCAGTAGTAACCTGTGACCTGGATCCGCCAGGCC 180
QY 181 CCAGGGAAGGAGCTGGAGTGGATGGACGTATCTCTGTGTAGTGGTGGGCCACCAACTAC 240

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FT /tag= a  
FT /product= "Heavy chain of 16C10 antibody"  
PN WO200189567-A1.  
PD 29-NOV-2001.  
XX 22-MAY-2001; 2001WO-US16364.  
XX 22-MAY-2000; 2000US-0576424.  
XX (IDEC-) IDEC PHARM CORP.  
PA Anderson DR, Hanna N, Brans P;  
XX WPI: 2002-089895/12.  
DR P-PSDB; AAU11646.  
XX  
PT Use of monoclonal antibody which specifically binds to B7.1 antigen  
PT CD80 and/or B7.2 antigen CD86 for inducing apoptosis of B7+ cells,  
PT treating cancer, graft-vs-host disease and autoimmune disease such as  
PT allergy -  
XX  
XX Example 8; Fig 5b; 89pp; English.  
PS  
XX The present invention relates to a new use of a monoclonal antibody  
CC which specifically binds to B7.1 antigen (CD80) and/or B7.2 antigen  
CC (CD86) for inducing the apoptosis of B7+ cells. The invention is  
CC useful for treating diseases such as B cell cancer, lymphoma, a  
CC cancer where B cells promote the growth and/or metastasis of tumours,  
CC B cell lymphoma, B cell leukaemia, and autoimmune diseases such as  
CC idiopathic thrombocytopenia purpura, systemic lupus, erythematosis,  
CC type 1 diabetes mellitus, rheumatoid arthritis, psoriasis, aplastic  
CC anaemia, inflammatory bile disease, allergy, multiple sclerosis  
CC or graft-vs-host disease. The antibody is useful for immunosuppression  
CC in a human or animal and for treating or preventing resistance to or  
CC rejection of transplanted organ or tissue for treating proliferative  
CC and hyperproliferative diseases, for treating reversible obstructive  
CC airways disease, intestinal inflammations and allergies e.g. Crohn's  
CC disease and ulcerative colitis, food-related allergies e.g. migraine,  
CC rhinitis and eczema, and other types of allergies. The present nucleic  
CC acid sequence encodes the heavy chain of 16C10, a primatised antibody  
CC used in the invention to induce apoptosis and inhibit production of  
CC interleukin-2 (IL-2).  
XX  
SQ Sequence 1431 BP; 319 A; 462 C; 385 G; 265 T; 0 other;

Query Match 74.0%; Score 313.2; DB 24; Length 1431;  
Best Local Similarity 84.5%; Pred. No. 2.1e-71;  
Matches 370; Conservative 0; Mismatches 53; Indels 15; Gaps 1;  
QY 1 ATGAACACCTGTGGTTCTTCTCTCTCTGGTGGGAGCTCCAGATGGTCTGTCCCGAG 60  
DB 1 ATGAACACCTGTGGTTCTTCTCTCTCTGGTGGGAGCTCCAGATGGTCTGTCCCGAG 60  
QY 61 CTCGAGCTCAGGAGTCGGGGCCAGAGTGGTGAAGCCCTTCGAGACCTGTCCCTCACC 120  
DB 61 GTGCGAGTCAGGAGTCGGGGCCAGGACTGGTGAAGCCCTTCGAGACCTGTCCCTCACC 120  
QY 121 TGGCGTGTCTGTGGTGTCTGTCTCAGAGTAGTAATCTGGTGACCTGGATCCCGAGCCC 180  
DB 121 TGGCGTGTCTGTGGTGTCTGTCTCAGCGGTGTATGGCTGGGGTGGATCCCGAGCCC 180  
QY 181 CCAGGGAAGGGAGTCGAGTGGATTGGACGTATCTCTGGTGGTGGGGCCACCAACTAC 240  
DB 181 CCAGGGAAGGGAGTCGAGTGGATTGGAGTTCTATAGTAGTGGGAACCACTACTAC 240  
QY 241 AACCCGCTCCCTCAAGAGTCGAGTCATCAFTTCAACAGACACGTCCTCAAGACCGAGTTCTCC 300  
DB 241 AACCCGCTCCCTCAAGAGTCGAGTCATCAFTTCAACAGACACGTCCTCAAGACCGAGTTCTCC 300  
QY 301 CTGAACCTGAATCTGTGACCGCGGACACGGCGGTGTATTACTGTGCCAGAGATTGG 360

DB 301 CTGAAGCTGAACCTCTATGACCCGCGGACACGGCCGTGTATTACTGTGTGAGAGATCGT 360  
QY 361 GCCCAATAGCTGGAACAA-----CGCTAGGCTTCTGGGGCCAGGGAGTC 405  
DB 361 CTTTTTTCAGTGTGTGAATGGTTTACAACAACCTGGTTCGATGTCTGGGGCCCGGGAGTC 420  
QY 406 CTGGTCACCGTCTCTCTCA 423  
DB 421 CTGGTCACCGTCTCTCTCA 438

RESULT 5  
AAZ39331  
ID AAZ39331 standard; DNA; 423 BP.  
XX  
AC AAZ39331;  
XX  
DT 15-FEB-2000 (first entry)  
XX  
DE Nucleotide sequence of Cynomolgous VH cDNA clone 2-5.  
XX  
KW Complementarity determining region; antibody; primate; immunogenicity;  
KW Old World ape; Old World monkey; antigen-binding affinity; ss.  
XX  
OS Macaca cynomolgus.  
XX  
PN WO9955369-A1.  
XX  
PD 04-NOV-1999.  
XX  
PF 28-APR-1999; 99WO-US09131.  
XX  
PR 28-APR-1998; 98US-0083367.  
XX (SMIK ) SMITHLINE BEECHAM CORP.  
XX  
PI Taylor AH;  
XX  
DR WPI: 2000-023265/02.  
DR P-PSDB; AAY56663, AAY56728.  
XX  
PT Antibodies containing donor complementarity determining regions and  
PT non-human primate acceptor frameworks, having reduced immunogenicity in  
PT humans -  
XX  
PS Example 3; Page 79; 123pp; English.

XX The invention provides an antibody (Ab) comprising donor CDRs  
CC (complementarity determining regions) derived from a non-human antigen-  
CC specific donor antibody, and an acceptor framework from a non-human  
CC primate. The Abs are prepared by grafting CDRs from a non-human antigen-  
CC specific donor antibody onto homologous Old World ape or monkey acceptor  
CC frameworks. The Abs have reduced immunogenicity and are better tolerated  
CC in humans (because of the close similarity between the human and primate  
CC proteins), but retain the full antigen-binding affinity of the donor  
CC antibody.  
XX  
SQ Sequence 423 BP; 76 A; 125 C; 122 G; 100 T; 0 other;  
Query Match 71.2%; Score 301.2; DB 21; Length 423;  
Best Local Similarity 85.0%; Pred. No. 2e-68;  
Matches 362; Conservative 0; Mismatches 58; Indels 6; Gaps 2;  
QY 1 ATGAACACCTGTGGTTCTTCTCTCTCTGGTGGGAGCTCCAGATGGTCTGTCCCGAG 60  
DB 1 ATGAACACCTGTGGTTCTTCTCTCTCTGGTGGGAGCTCTAGATGGTCTGTCCCGAG 60  
QY 61 CTGCGAGTCGAGGAGTCGGGGCCAGGAGTGGTGAAGCCCTTCGAGACCTGTCCCTCACC 120  
DB 61 GTGCGAGTTGCGAGGAGTCGGGGCCAGGAGT3GTGAAGCCCTTCGAGACCTGTCCCTCACC 120  
QY 121 TGGCGTGTCTGTGGTGGTCTGTCTCAGCAGTAGTAACCTGGTGGAGCTGGATCCCGAGCCC 180



Db  
358 ATATTGAAATATCTTCACTGGTTATTATCTGGGGCCAGGGAGTCTCTGGTCACGGTCTCC 417



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CY      421 TCA 421
DB      418 TCA 420

RESULT 10
AAQ35903
XX      AAQ35903 standard; DNA; 423 BP.
XX      AC
XX      AAQ35903;
XX      08-JUN-1993 (first entry)
XX      DE
XX      Anti-CD4 VH coding sequence.
XX      PCR; amplify; clone; heavy; light; chains; variable; region; variable;
XX      immortalised R-cell; vector; TRAE 6; human; light; constant; chain;
XX      recombinant; antibody; chimpanzee; Ig; A1; 11 world monkey; cynomolgus
XX      immunoglobulin; therapeutic; rheumatoid arthritis; 189 SS.
XX      CS
XX      Sirian sp.
XX      PN
XX      W0912198 A.
XX      CD
XX      04-FEB-1993.
XX      PF
XX      24-JUN-1992; 92WO 0506194.
XX      PR
XX      26-JUL-1991; 91US 0716064.
XX      23-MAR-1992; 92US 0856281.
XX      FA
XX      (IDEC-); IDEC PHARM CORP.
XX      PI
XX      Hantz N, Newman RA, Raab RW;
XX      DP
XX      MP1; 1993 059720/07.
XX      DR
XX      P-FSR; AAR31948.
XX      Recombinant antibodies including Gli W cell monkey partial hml
XX      human portion - used for treatment of autoimmune diseases,
XX      PT infectious diseases, AIDS, tumors, diabetes, fibrotic
XX      PT diseases, intestinal inflammations and allergies, etc.
XX      PS
XX      Disclosure; Page 53-54; 92pp; English.
XX      CC
XX      The sequences given in AAQ35903 04 encode the Sirian anti-CD4 VH and
XX      V-lambda sequences respectively. These sequences were obtained using
XX      CC the primer sequences given in AAQ35903 05. The replication origin
XX      CC were sequentially cloned into the vector pAB1, which contains the
XX      CC IgG1 and human lambda constant regions. The artificial sequences 5'GGI
XX      CC be used in the production of a recombinant antibody. Sequencing
XX      CC human, chimpanzee or old world monkey genomic DNA in a constant
XX      CC region and an antigen (Ag) binding portion of an old world monkey in
XX      CC variable region, where the old world monkeys may be the same or
XX      CC different. The recombinant antibody may be used as a therapeutic
XX      CC agent for the treatment of rheumatoid arthritis, diabetes, and
XX      CC immunological disorders.
XX      SQ
XX      Sequence 423 BP; 85 A; 122 C; 113 G; 108 T; 1301

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CY      421 TCA 421
DB      418 TCA 420

RESULT 10
AAQ35903
XX      AAQ35903 standard; DNA; 423 BP.
XX      AC
XX      AAQ35903;
XX      08-JUN-1993 (first entry)
XX      DE
XX      Anti-CD4 VH coding sequence.
XX      PCR; amplify; clone; heavy; light; chains; variable; region; variable;
XX      immortalised R-cell; vector; TRAE 6; human; light; constant; chain;
XX      recombinant; antibody; chimpanzee; Ig; A1; 11 world monkey; cynomolgus
XX      immunoglobulin; therapeutic; rheumatoid arthritis; 189 SS.
XX      CS
XX      Sirian sp.
XX      PN
XX      W0912198 A.
XX      CD
XX      04-FEB-1993.
XX      PF
XX      24-JUN-1992; 92WO 0506194.
XX      PR
XX      26-JUL-1991; 91US 0716064.
XX      23-MAR-1992; 92US 0856281.
XX      FA
XX      (IDEC-); IDEC PHARM CORP.
XX      PI
XX      Hantz N, Newman RA, Raab RW;
XX      DP
XX      MP1; 1993 059720/07.
XX      DR
XX      P-FSR; AAR31948.
XX      Recombinant antibodies including Gli W cell monkey partial hml
XX      human portion - used for treatment of autoimmune diseases,
XX      PT infectious diseases, AIDS, tumors, diabetes, fibrotic
XX      PT diseases, intestinal inflammations and allergies, etc.
XX      PS
XX      Disclosure; Page 53-54; 92pp; English.
XX      CC
XX      The sequences given in AAQ35903 04 encode the Sirian anti-CD4 VH and
XX      V-lambda sequences respectively. These sequences were obtained using
XX      CC the primer sequences given in AAQ35903 05. The replication origin
XX      CC were sequentially cloned into the vector pAB1, which contains the
XX      CC IgG1 and human lambda constant regions. The artificial sequences 5'GGI
XX      CC be used in the production of a recombinant antibody. Sequencing
XX      CC human, chimpanzee or old world monkey genomic DNA in a constant
XX      CC region and an antigen (Ag) binding portion of an old world monkey in
XX      CC variable region, where the old world monkeys may be the same or
XX      CC different. The recombinant antibody may be used as a therapeutic
XX      CC agent for the treatment of rheumatoid arthritis, diabetes, and
XX      CC immunological disorders.
XX      SQ
XX      Sequence 423 BP; 85 A; 122 C; 113 G; 108 T; 1301

```





**SQ** Sequence 423 BP; 85 A; 122 C; 113 G; 103 T; 0 other;

**Query Match** 70.5%; Score 298.2; DB 19; Length 423;  
**Best Local Similarity** 83.2%; Pred. No. 1.2e-67;  
**Matches** 352; Conservative 0; Mismatches 68; Indels 3; Gaps 1;

**QY** 1 ATGAACACCTGTGGTTCCTCCTCTGCGGCAGCTCCAGATGGTGCTGCCAG 60  
|||||  
**Db** 4 ATGAACACCTGTGGTTCCTCCTCTGCGGCAGCTCCAGATGGTGCTGCCAG 63  
|||||

**QY** 61 CTCAGCTCAGAGTCGGGCCAGAGTGGTCAAGCCTTCGGAGACCCTGCTCCCTACC 120  
|||||  
**Db** 64 GTCCAGCTCAGAGTGGGCCAGAGTGGTCAAGCCTTCGGAGACCCTGCTCCCTACC 123  
|||||

**QY** 121 TGGCGTCTCTCGTGGTCTCTGTCAGCAGTAGTAACCTGGTGGACCTGGATCGCCAGGCC 180  
|||||  
**Db** 124 TGCAAGTCTCTGTTGGTCCATCAGCGGTGACTATTATGGTTCTGGATCGCAGTCC 183  
|||||

**QY** 181 CCAGGAAGGACTGAGTGGATTTGGACGTATCTCTGGTAGTGGTGGGGCCACCAACTAC 240  
|||||  
**Db** 184 CCAGGAAGGACTGAGTGGATTTGGACGTATCTCTGGTAGTGGTGGGGCCACCAACTAC 243  
|||||

**QY** 241 AACCCGTCCCTCAAGAGTCGAGTCATCATTTACAAGACACGTCCAAGAACCAGTTCCTCC 300  
|||||  
**Db** 244 AATCCCTCCCTCAACAATCGAGTCTCCATTTCAATAGACACGTCCAAGAACCCTCTTCCTCC 303  
|||||

**QY** 301 CTGAACCTGAACCTCTGTACCGCGCGGACACGGCGGTATTAATCTGTGCAGAGATTGG 360  
|||||  
**Db** 304 CTGAACCTGAACCTCTGTACCGCGCGGACACGGCGGTATTAATCTGTGCAGAGATTGG 363  
|||||

**QY** 361 GCCCAATAGCTGGAAACAACGCTAGGCTTCTGGGGCCAGGGAGTCTCGTCAACCGTCTCC 420  
|||||  
**Db** 361 ATATTGAATATCTTCACTGGTTATTATACTGGGGCCAGGGAGTCTCGTCAACCGTCTCC 420  
|||||

**QY** 421 TCA 423  
|||  
**Db** 421 TCA 423  
|||

**RESULT 14**

**AAS03048**  
ID AAS03048 standard; cDNA; 619 BP.  
XX AC AAS03048;  
XX XX  
DT DT  
XX XX  
DE DE  
XX XX  
KW Human diagnostic and therapeutic (dithp) cDNA sequence #37.  
KW thalassemia; cardiovascular disease; cell proliferative disorder;  
KW cancer; neurodegenerative disorder; autoimmune disorder;  
KW infectious disorder; inflammatory disorder; developmental disorder;  
KW Incyte ID number 4442487dec; antigen recognition molecule; ss.  
XX OS Homo sapiens.  
XX OS  
PN WO200121836-A2.  
XX XX  
PD PD  
PF PF  
XX XX  
PR 19-SEP-2000; 2000WO-US25643.  
PR 23-SEP-1999; 99US-0155760.  
PR 24-SEP-1999; 99US-0155939.  
PR 24-SEP-1999; 99US-0156294.  
PR 28-SEP-1999; 99US-0156565.  
PR 28-SEP-1999; 99US-0156624.  
PR 28-SEP-1999; 99US-0156625.  
PR 24-NOV-1999; 99US-0167410.  
PR 24-NOV-1999; 99US-0167453.  
PR 24-NOV-1999; 99US-0167517.  
PR 24-NOV-1999; 99US-0167520.

**24-NOV-1999; 99US-0167542.**  
**29-NOV-1999; 99US-0167943.**  
**29-NOV-1999; 99US-0167945.**  
**30-NOV-1999; 99US-0168197.**  
**30-NOV-1999; 99US-0168265.**  
**30-NOV-1999; 99US-0168429.**  
**30-NOV-1999; 99US-0168432.**  
**01-DEC-1999; 99US-0168468.**  
**01-DEC-1999; 99US-0168599.**  
**(INCY-) INCYTE GENOMICS INC.**  
**Hodgson DM, Lincoln SE, Russo FD, Spiro PA, Banville SC;**  
**Bratcher SR, Dufour GE, Cohen HJ, Rosen BH, Shah P, Chalup MS;**  
**Hillman JL, Jones AL, Yu JY, Greenawalt LB, Panzer SR;**  
**Roseberry AM, Wright RJ, Chen W, Liu TF, Yap PE, Stockdreher TK;**  
**Amshey S, Fong WT;**  
**WPI; 2001-281607/29.**  
**Novel diagnostic and therapeutic polynucleotides, used in disease diagnosis and for gene therapy of conditions such as cancer and thalassemia -**  
**Claim 1; Page 273; 29pp; English.**  
**The present sequence for human diagnostic and therapeutic (dithp) cDNA sequence #37 is 1 of 71 (AAS03012-AAS03082) novel sequences described in the invention. The present sequence (Incyte ID No: 4442487dec) encodes an antigen recognition molecule. The dithp polynucleotides may be used to diagnose a condition disease or disorder associated with human molecules. They can be used to identify the presence of similar nucleic acids. Dithp polynucleotides may be used to generate hybridisation probes for use in chromosomal mapping. Polypeptides (DITHP) encoded by dithp are used to screen for molecules which bind to them and modulate their activity. Dithp polynucleotides can be used for gene therapy of disorders such as severe combined immunodeficiency syndrome (SCID), cystic fibrosis, thalassemia, haemophilia resulting from Factor VIII or IX deficiencies, cardiovascular disorders e.g familial hypercholesterolaemia (FH), cell proliferative disorders e.g. cancers, neurodegenerative disorders, autoimmune/inflammatory disorders, infectious disorders and developmental disorders. The antibodies can be used to analyse protein expression levels.**  
**SQ** Sequence 619 BP; 121 A; 192 C; 176 G; 130 T; 0 other;

**Query Match** 70.1%; Score 296.4; DB 22; Length 619;  
**Best Local Similarity** 84.3%; Pred. No. 3.7e-67;  
**Matches** 359; Conservative 0; Mismatches 61; Indels 6; Gaps 2

**QY** 1 ATGAACACCTGTGGTTCCTCCTCTGTTGGCAGCTCCAGATGGTGTCTGCCAG 60  
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**QY** 61 CTCAGCTCAGAGTCCGGGCCAGAGTGGTGAAGCCTTCGGAGACCCTGCTCCCTACC 120  
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**Db** 96 GTCCAGCTCAGAGTCCGGGCCAGAGTGGTGAAGCCTTCGGAGACCCTGCTCCCTACC 155  
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**QY** 121 TGGCGTCTCTGTTGGTCTCTGTCAGCAGTAGTAACCTGGTGGACCTGGATCGCCAGGCC 180  
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**Db** 156 TGGCGTCTCTGTTGGTCTCTGTCAGCAGTAGTAACCTGGTGGACCTGGATCGCCAGGCC 215  
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**QY** 181 CCAGGAAGGACTGAGTGGATTTGGAGTATCTATCATATA---GTGGGAGCACCTACTAC 240  
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**QY** 241 AACCCGTCCCTCAAGAGTCGAGTCATCATTTTCAAGAACAAGTCCAAGAACCAGTTCCTCC 300  
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**Db** 273 AACCCGTCCCTCAAGAGTCGAGTCATCATTTTCAAGAACAAGTCCAAGAACCAGTTCCTCC 332  
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**QY** 301 CTGAACCTGAACCTCTGTGACCGCGCGGACACGGCGGTATTAATCTGTGTGCCA---GAGAT 357  
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**Db** 333 CTGAACCTGAACCTCTGTGACCGCGCGGACACGGCGGTATTAATCTGTGTGCCA---GAGAT 392  
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Db 361 ATATTGAAATATCTTCACTGGTTATTATATCTGGGGCCAGGGAGTCTCTGGTCACCGTCTCC 420

Search completed: July 15, 2003, 08:27:56  
Job time : 160.905 secs

Software version 5.1.6  
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XX search: multiple search, using sw mode

Run on: July 15, 2003, 08:28:33 Search time 100.402 Seconds  
without alignments  
6100147 Million cell updates/sec

Top 100 sequences

Sequence 100: 423  
Sequence 101: 423  
Sequence 102: 423  
Sequence 103: 423  
Sequence 104: 423  
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Sequence 113: 423

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Sequence 117: 423

Sequence 118: 423

Sequence 119: 423

Sequence 120: 423

Sequence 121: 423

Sequence 122: 423

Sequence 123: 423

Sequence 124: 423

Sequence 125: 423

Sequence 126: 423

Sequence 127: 423

Sequence 128: 423

Sequence 129: 423

Sequence 130: 423

Sequence 131: 423

Sequence 132: 423

Sequence 133: 423

Sequence 134: 423

Sequence 135: 423

Sequence 136: 423

Sequence 137: 423

Sequence 138: 423

Sequence 139: 423

Sequence 140: 423

Sequence 141: 423

Sequence 142: 423

Sequence 143: 423

Sequence 144: 423

Sequence 145: 423

Sequence 146: 423

Sequence 147: 423

Sequence 148: 423

Sequence 149: 423

Sequence 150: 423

Sequence 151: 423

Sequence 152: 423

Sequence 153: 423

Sequence 154: 423

Sequence 155: 423

Sequence 156: 423

Sequence 157: 423

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Sequence 161: 423

Sequence 162: 423

Sequence 163: 423

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25	252.8	59.8	429	9	US-10-040-139-137A	Sequence 14, Appl 1
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33	236.4	55.9	1539	10	US-09-064-141-134A	Sequence 22, Appl 1
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38	232.4	54.9	346	9	US-10-140-131-134A	Sequence 27, Appl 1
39	232	54.8	514	9	US-10-040-139-137A	Sequence 28, Appl 1
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41	227.4	53.8	381	10	US-09-065-141-1	Sequence 30, Appl 1
42	227	53.7	411	10	US-09-065-141-1	Sequence 31, Appl 1
43	223.8	52.9	663	9	US-09-073-146-134A	Sequence 32, Appl 1
44	221.8	52.4	324	10	US-09-064-141-134A	Sequence 33, Appl 1
45	221	52.2	353	10	US-09-064-141-134A	Sequence 34, Appl 1

ALL SEQUENCES

RESULT 1  
US-10-103-486-2  
Sequence 2, Application US-10-103-486-2  
Publication No. US20030059434A1  
GENERAL INFORMATION:  
APPLICANT: REEF, Mitchell E.  
KLOETZER, William S.  
NAKAMURA, Takahiko  
TITLE OF INVENTION: GAMMA-1 ANTI HUMAN TGF- $\beta$  MONOCLONAL ANTIBODIES AND USE THEREOF AS THERAPEUTICS  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BURNS, DOANE, SWENKER & WACHS  
STREET: P.O. Box 1404  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC DOS/MS-DOS  
SOFTWARE: Patent In Release 4.1.1, Ver. 4.1.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/103-486-2  
FILING DATE: 25 May 2002  
CLASSIFICATION: Unknown  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/065-141-1  
FILING DATE: 20 Feb 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Teskin, Robin L.  
REGISTRATION NUMBER: 16,730  
REFERENCE/DOCKET NUMBER: 011,111-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 896-6623  
TELEFAX: (703) 896-2021  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 423 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single



















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; Sequence 2, Application US/10073138
; Publication No. US20020187146A1
; GENERAL INFORMATION:
; APPLICANT: ANDERSON, Darrell R.
; HANNA, Nabil
; BRAMS, Peter
; TITLE OF INVENTION: IDENTIFICATION OF UNIQUE BINDING
; INTERACTIONS BETWEEN CERTAIN ANTIBODIES AND THE HUMAN B7.1
; AND B7.2 CO-STIMULATORY ANTIGENS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; City: Alexandria
; STATE: Virginia
; COUNTRY: United States
; Zip: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/073,138
; FILING DATE: 13-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/746,361
; FILING DATE: 08-NOV-1996
; APPLICATION NUMBER: US 08/487,550
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1431 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1431
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-073-138-2
Query Match 68.7%; Score 290.8; DB 9; Length 1431;
Best Local Similarity 81.3%; Pred. No. 1.5e-75;
Matches 356; Conservative 0; Mismatches 67; Indels 15; Gaps 1;
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QY 181 CCAGGGAGGGGACTGGAGTGGATGGACGTATCTCTGTAGTGGTGGGGCCCAACTAC 240
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QY 361 GCCCAATAGCTGGAACAA-----CGCTAGGCTTCTGGGGCCAGGGAGTC 405
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QY 406 CTGGTCACCGTCTCCTCA 423
DB 421 CTGGTCACCGTCTCCTCA 438
Search completed: July 15, 2003, 13:01:02
Job time : 111.492 secs
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32	298.2	70.5	423	3	US-07-735-064A-15	Sequence 15, Appl
33	298.2	70.5	423	7	US-08-379-072-15	Sequence 15, Appl
34	298.2	70.5	423	8	US-08-476-349-15	Sequence 15, Appl
35	298.2	70.5	423	32	US-09-089-165-15	Sequence 15, Appl
36	296.4	70.1	619	39	US-10-080-128-37	Sequence 37, Appl
37	296.4	70.1	619	60	US-60-168-599-505	Sequence 505, App
38	295.4	69.8	434	17	US-09-362-510-23569	Sequence 23569, A
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45	293.4	69.4	417	37	US-09-989-901-1	Sequence 1, Appl

## ALIGNMENTS

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US-09-019-441-2

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Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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Db   121 TGGCGTGTCTCTGGTGGCTCTGTCAAGAGTAGTAACHTGGTGGACTCGATCCGCCAGGCC 180

Qy   181 CCAGGGAAGGCACTGGAGTGGATTGGAAGTATCTCTGTTAGTGGTGGGCCACCAACTAC 240
Db   181 CCAGGGAAGGCACTGGAGTGGATTGGAAGTATCTCTGTTAGTGGTGGGCCACCAACTAC 240

Qy   241 AACCGTCCCTCAAGAGTCGAGTCATATTTCAAGACAGCTCAAAGAACCAAGTTCTCC 300
Db   241 AACCGTCCCTCAAGAGTCGAGTCATATTTCAAGACAGCTCAAAGAACCAAGTTCTCC 300

Qy   301 CTGAACCTGAACCTCTGTACCGCGCGGACACGCGCTGTATTACTGTGCCAGAGATTGG 360
Db   301 CTGAACCTGAACCTCTGTACCGCGCGGACACGCGCTGTATTACTGTGCCAGAGATTGG 360

Qy   361 GCCCAATAGCTGGAAACAACGCTAGGCTCTGGGGCCAGGAGTCTGGTCAACGTCCTCC 420
Db   361 GCCCAATAGCTGGAAACAACGCTAGGCTCTGGGGCCAGGAGTCTGGTCAACGTCCTCC 420

Qy   421 TCA 423
Db   421 TCA 423

RESULT 2
US-09-292-053-3
; Sequence 3, Application US/09292053
; GENERAL INFORMATION:
; APPLICANT: REFF, MITCHELL E.
; APPLICANT: KLOETZER, WILLIAM S.
; APPLICANT: NAKAMURA, TAKEHIKO
; TITLE OF INVENTION: GAMMA-1 ANTI-HUMAN CD23 MONOCLONAL ANTIBODIES AND USE
; FILE REFERENCE: THEREOF AS THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/292,053
; PRIOR FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: 08/803,085
; PRIOR FILING DATE: 1997-02-20
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 423
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (1)..(58)
; NAME/KEY: mat_peptide
; LOCATION: (58)..(423)
; NAME/KEY: CDS
; LOCATION: (1)..(423)
US-09-292-053-3
```





















	Db	 61 GTGCAGCTCGCAGGAGTCGGGCCCCAGGACTGGTGAACGCCTTCGGAGACCCTGTCCCTCAC 120
	Qy	 121 TGCCTGTCTCTGGTTGGCTCTCTCAGCAGTAGTAATCGTGAGCACTGGATCCGCAGCC 180
	Db	 121 TGCCTGTCTCTGGTTGGCTCCATCAGCGGTGTTATGCTGGGGCTGGATCCGCAGCC 180
	Qy	 181 CCAGGAAAGGACCTGGAGTGGANTGGACGTATCTCTGGTAGTGTGGGGCCACCAACTAC 240
	Db	 181 CCAGGAAAGGGCTGGAGTGGATTGGGATTTCTATAGTAGTAGTGGGAACACCTACTAC 240
	Qy	 241 AACCGTCCCTCAAGAGTCGAGTCATCATTTCCACAAGACACGCTCAAGAACACAGTTCTCC 300
	Db	 241 AACCCCTCCTCAAGAGTCAGTCAACATTTCCACAGACAGTCCAGAACACAGTTCTCC 300
	Qy	 301 CTGAACCTGAACTCTGTGACCGCCCGGACACGGCCGTGTATTACTGTGCCAGAGATTGG 360
	Db	 301 CTGAAGCTGAACTCTATGACCCCGCGGACACGGCCGTGTATTACTGTGTGAGAGATCGT 360
	Qy	 361 GCCCAAATAGCTGGAAACA-----CGCTAGGCTTCTGGGGCCAGGAGTCC 405
	Db	 361 CTTTTTCATGTTTGGAAATGGTTTACAACAACACTGGTTCGATGTCTGGGGCCGGGAGTC 420
	Qy	 406 CTGFTACCGTCTCCTCA 423
	Db	 421 CTGFTACCGTCTCCTCA 438

```

RESULT 2
US-10-291-532-11
; Sequence 11, Application US/10291532
; GENERAL INFORMATION:
; APPLICANT: HARIHARAN, KANDASAMY
; APPLICANT: HANNA, NABIL
; TITLE OF INVENTION: ANTI-CD80 ANTIBODY HAVING ADCC ACTIVITY FOR ADCC
; TITLE OF INVENTION: MEDIATED KILLING OF B CELL LYMPHOMA CELLS ALONE OR IN
; TITLE OF INVENTION: COMBINATION WITH OTHER THERAPIES
; FILE REFERENCE: 037003/291872
; CURRENT APPLICATION NUMBER: US/10/291,532
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: 60/331,187
; PRIOR FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: 09/758,173
; PRIOR FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: 09/383,916
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: 08/487,950
; PRIOR FILING DATE: 1995-06-07
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 1431
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primatized nucleotide sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: {1}..(1428)
US-10-291-532-11

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Qy	121	TGCGCTGTCTCTGTGGCTCTGTGTCAGCAGTAGTAAC	TGGTGGACCTGGATCCGCAGCCC	180
Db	121	TGCGCTGTCTCTGTGGCTCCATCAGCGGTGGTTATGG	CTGGGGCTGGATCCGCAGCCC	180
Qy	181	CCAGGGAAGGACTGGAGTGGATGGAGCTATCTCTGG	TAGTGGTGGGCCACCAACTAC	240
Db	181	CCAGGGAAGGGGCTGGAGTGGATGGAGTTTCTATAG	TAGTGGGAAACCTCTACTAC	240
Qy	241	AACCCGTCCCTCAAGAGTCGAGTCATCATTTCAACA	GACACGTCACAAACAGTTCTCC	300
Db	241	AACCCCTCCCTCAAGAGTCAAGTCACCATTTCAAC	ACAGACACGTCACAAACAGTTCTCC	300
Qy	301	CTGAACCTGAACCTCTGTACCGCCCGCGGACACGG	CCGTGTATTACTGTGCCAGAGATTGG	360
Db	301	CTGAAGCTGAACCTCTATGACCGCCCGCGGACACGG	CCGTGTATTACTGTGTGAGAGATCGT	360
Qy	361	GCCCAAAATAGCTGGAAACA	-----CGCTAGGCTTCTGGGGCCAGGGAGTC	405
Db	361	CTTTTTTTCAGTTGTGGATGGTTTACAACTGGTTC	GATGTCGTGGGGCCCGGGAGTC	420
Qy	406	CTGGTCACCGTCTCCTCA	423	
Db	421	CTGGTCACCGTCTCCTCA	438	

```

RESULT 3
US-10-170-235-24476
; Sequence 24476, Application US/10170235
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig
; TITLE OF INVENTION: KITS, SUCH AS NUCLEIC ACID ARRAYS, COMPRISING A MAJORITY
; TITLE OF INVENTION: TRANSCRIPTS, FOR DETECTING EXPRESSION AND OTHER USES TH
; FILE REFERENCE: CL001380
; CURRENT APPLICATION NUMBER: US/10/170,235
; CURRENT FILING DATE: 2003-03-17
; NUMBER OF SEQ ID NOS: 42514
; SEQ ID NO 24476
; LENGTH: 387
; TYPE: DNA
; ORGANISM: HUMAN
; US-10-170-235-24476

```

## RESULT 4







Db 121 TGCACCTGTCTCTGGTGGCTC---CATCAGAGGTACTACTGGAGCTGGATCCGGCAGCCC 177  
QY 181 CCAGGGAAGGGAAGTGGATGGACGTATCTCTGGTAGTGGTGGGGCCACCAACTAC 240  
Db 178 CTTGGGAAGGGAAGTGGATGGATGGGTATATCTATTACA---GTGGGAGCACCAACTAC 234  
QY 241 AACCCGTCCTCAAGAGTCGAGTCATCTTTTCAAGACACGCTCCAAAGAACAGTTCTCC 300  
Db 235 AACCCCTCCTCAAGAGTCGAGTCACCATATCAGTAGACACGTCCTCAAGAACCAAGTTCTCC 294  
QY 301 CTGAACCTGAACCTCTGTGACCGCGGACACGGCGGTGTTATTACTGTGCCAGAGATTGG 360  
Db 295 CTGAAGCTGAACCTCTGTGACCGCTGCGGACACGGCGGTGTTATTATTGTGCGAAGAAAGGG 354  
QY 361 GCCCAAAATAGCTG---GAACAAGCTAGGCTTCTGGGGCCAGGGAGTCTGTGTACCGTC 417  
Db 355 GGCCTCTACGGTGAAGTACGGCTGGTTCGCCCTCGGGCCAGGGAACCTGTGTACCGTTC 414  
QY 418 TCCTCA 423  
Db 415 TCCTCA 420

## RESULT 12

PCT-US02-38550-104

; Sequence:104, Application PC/TUS0238550

; GENERAL INFORMATION:

; APPLICANT: GUDAS, Jean

; APPLICANT: FOLTZ, Ian

; APPLICANT: HANDA, Masahisa

; APPLICANT: GALLO, Michael

; TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX

; FILE REFERENCE: AGENIX.027A

; CURRENT APPLICATION NUMBER: PCT/US02/38550

; CURRENT FILING DATE: 2002-12-02

; PRIOR APPLICATION NUMBER: US 60/337275

; PRIOR FILING DATE: 2001-12-03

; NUMBER OF SEQ ID NOS: 246

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 104

; LENGTH: 423

; TYPE: DNA

; ORGANISM: Homo sapiens

PCT-US02-38550-104

Query Match 67.8%; Score 287; DB 2; Length 423;  
Best Local Similarity 84.4%; Pred. No. 1.1e-71;  
Matches 362; Conservative 0; Mismatches 55; Indels 12; Gaps 3;

QY 1 ATGAACACCTGTGGTTCTCTCTCTGGTGGAGCTCCAGATGGTCTCTGTCCAG 60  
Db 1 ATGAACACCTGTGGTTCTCTCTCTGGTGGAGCTCCAGATGGTCTCTGTCCAG 60  
QY 61 CTGCAGCTCAGAGTCGGGCGGAGGTTGGAAGCCTTCGGAGACCTGTCCCTCACC 120  
Db 61 GTGCAGCTCAGAGTCGGGCGGAGGTTGGAAGCCTTCGGAGACCTGTCCCTCACC 120  
QY 121 TGCCTGTCTCTGGTGGCTCTCTCAGCAGTAGTAACCTGGTGACCTGGATCCGCGAGCCC 180  
Db 121 TGCACCTGTCTCTGGTGGCTC---CATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCC 177  
QY 181 CCAGGGAAGGGAAGTGGATGGACGTATCTCTGGTAGTGGTGGGGCCACCAACTAC 240  
Db 178 CCAGGGAAGGGAAGTGGATGGATGGGTATATCTATTACA---GTGGGAGCACCAACTAC 234  
QY 241 AACCCGTCCTCAAGAGTCGAGTCATCTTTTCAAGACACGCTCCAAAGAACAGTTCTCC 300  
Db 235 AACCCCTCCTCAAGAGTCGAGTCACCATATCAGTAGACACGTCCTCAAGAACCAAGTTCTCT 294  
QY 301 CTGAACCTGAACCTCTGTGACCGCGGACACGGCGGTGTTATTACTGTGCCAGAGATTGG 360  
Db 295 CTGAAGCTGAAGTGGATGGATGGGTATATCTATTACA---GTGGGAGCACCAACTAC 234  
QY 418 TCCTCA 423  
Db 415 TCCTCA 420

## RESULT 14

Db 295 CTGAAGCTGAGCTCTGTGACCGCTGCGGACACGCCCGTGTATTACTGTGCGAGAGATACC 354  
QY 361 GCCCAAAATAGCTGA-----ACAACGCTAGGCTTCTGGGGCCAGGGAGTCTCTGGTCAAC 414  
Db 355 CGTACGATTTTGGAGTGGTATGCGGTATGGACCTCTGGGGCCCAAGGACCAACCGTCAAC 414  
QY 415 GTCTCCTCA 423  
Db 415 GTCTCCTCA 423

## RESULT 13

US-10-309-762-104

; Sequence 104, Application US/10309762

; GENERAL INFORMATION:

; APPLICANT: GUDAS, Jean

; APPLICANT: FOLTZ, Ian

; APPLICANT: HANDA, Masahisa

; APPLICANT: GALLO, Michael

; TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX

; FILE REFERENCE: AGENIX.027A

; CURRENT APPLICATION NUMBER: US/10/309,762

; CURRENT FILING DATE: 2002-12-02

; PRIOR APPLICATION NUMBER: 60/337275

; PRIOR FILING DATE: 2001-12-03

; NUMBER OF SEQ ID NOS: 246

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 104

; LENGTH: 423

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-309-762-104

Query Match 67.8%; Score 287; DB 14; Length 423;  
Best Local Similarity 84.4%; Pred. No. 1.1e-71;  
Matches 362; Conservative 0; Mismatches 55; Indels 12; Gaps 3;

QY 1 ATGAACACCTGTGGTTCTCTCTCTGGTGGAGCTCCAGATGGTCTCTGTCCAG 60  
Db 1 ATGAACACCTGTGGTTCTCTCTCTGGTGGAGCTCCAGATGGTCTCTGTCCAG 60  
QY 61 CTGCAGCTCAGGAGTCGGGCGGAGGTTGGAAGCCTTCGGAGACCTGTCCCTCACC 120  
Db 61 GTGCAGCTCAGGAGTCGGGCGGAGGTTGGAAGCCTTCGGAGACCTGTCCCTCACC 120  
QY 121 TGCCTGTCTCTGGTGGCTCTGTGACGAGTAGTAACCTGGTGACCTGGATCCGCGAGCCC 180  
Db 121 TGCACCTGTCTCTGGTGGCTC---CATCAGTAGTTACTACTGGAGCTGGATCCGGCAGCCC 177  
QY 181 CCAGGGAAGGGAAGTGGATGGAGCTATCTCTGGTAGTGGTGGGGCCACCAACTAC 240  
Db 178 CCAGGGAAGGGAAGTGGAGTGGGTATATCTATTACA---GTGGGAGCACCAACTAC 234  
QY 241 AACCCGTCCTCAAGAGTCGAGTCATCTTTTCAAGACACGCTCCAAAGAACAGTTCTCC 300  
Db 235 AACCCCTCCTCAAGAGTCGAGTCACCATATCAGTAGACACGTCCTCAAGAACCAAGTTCTCT 294  
QY 301 CTGAACCTGAACCTCTGTGACCGCGGACACGGCGGTGTTATTACTGTGCCAGAGATTGG 360  
Db 295 CTGAAGCTGAGCTCTGTGACCGCTGCGGACACGCCCGGTGTATTACTGTGCGAGAGATACC 354  
QY 361 GCCCAAAATAGCTGA-----ACAACGCTAGGCTTCTGGGGCCAGGGAGTCTCTGGTCAAC 414  
Db 355 CGTACGATTTTGGAGTGGTATGCGGTATGGACCTCTGGGGCCCAAGGACCAACCGTCAAC 414  
QY 415 GTCTCCTCA 423  
Db 415 GTCTCCTCA 423













QY 361 GCCCAATAGCTGGAACACGCTAGGCTTCTGGGCCAGGAGTCTCTGGTCAACCGTCTCC 420  
Db 358 ATATTGAATATCTTCACTGGTTATTATCTGGGCCAGGAGTCTCTGGTCAACCGTCTCC 417  
QY 421 TCA 423  
Db 418 TCA 420

RESULT 5

US-08-523-894-11  
; Sequence 11, Application US/08523894  
; Patent No. 6136310  
; GENERAL INFORMATION:  
; APPLICANT: Hanna, Nabil  
; APPLICANT: Newman, Roland A.  
; APPLICANT: Reff, Mitchell E.  
; TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies for Human  
; TITLE OF INVENTION: Therapy  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS  
; STREET: 699 Prince Street  
; CITY: Alexandria  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 22314-3187  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/523,894  
; FILING DATE: 06-SEP-1995  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Teskin, Robin L.  
; REGISTRATION NUMBER: 35,030  
; REFERENCE/DOCKET NUMBER: 012712-165  
; TELEPHONE: 703-836-6620  
; TELEFAX: 703-836-2021  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1404 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; POSITION IN GENOME:  
; CHROMOSOME/SEGMENT: heavy chain gamma 4 with the P and E  
; CHROMOSOME/SEGMENT: mutation  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..1404  
; FEATURE:  
; NAME/KEY: mat\_peptide  
; LOCATION: 1..1404  
US-08-523-894-11

Query Match 70.9%; Score 299.8; DB 3; Length 1404;  
Best Local Similarity 83.5%; Pred. No. 4e-76; 67; Indels 3; Gaps 1;  
Matches 353; Conservative 0; Mismatches 0  
QY 1 ATGAACACCTGTGGTTCTCTCTCTGGTGGCAGTCCAGATGGGTCTGTCCAG 60  
Db 1 ATGAACACCTGTGGTTCTCTCTCTGGTGGCAGTCCAGATGGGTCTGTCCAG 60  
QY 61 CTGCAGCTCAGAGTGGGCCAGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120

Db 61 GTGCAGCTCAGAGTGGGCCAGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120  
QY 121 TGCCTGTCTCTGTGGTCTGTCTGAGTAGTAACTGGTGGACCTGGATCGGCAGCC 180  
Db 121 TGCAGTGTCTCTGTGGTCTCATCAGCGGTGACTATTATTGGTCTGGATCGGCAGTCC 180  
QY 181 CCAGGGAAGGACTGGAGTGGATTCGAGTATCTCTGGTAGTGGTGGGCCACCAACTAC 240  
Db 181 CCAGGGAAGGACTGGAGTGGATTCGAGTATCTATGGCAGTGGTGGGGGACCAATTAC 240  
QY 241 AACCCGTCCCTCAAGAGTTCAGTTCATTTTCAAGACACGTCCAGAAACAGTTCTCC 300  
Db 241 AATCCCTCCCTCAACAATCGAGTCTCCATTTCATATAGACACGTCCAGAACTCTCTCC 300  
QY 301 CTGAACCTGAACCTGTGACCGCGGACACGCGCTGTATTACTGTGCCAGAGATTGG 360  
Db 301 CTGAACCTGAAGTCTGTGACCGCGGACACGCGCTGTATTACTGTGGCAGTAAT--- 357  
QY 361 GCCCAATAGCTGGAACAAACGCTAGGCTTCTGGGCCAGGAGTCTCTGGTCAACCGTCTCC 420  
Db 358 ATATTGAATATCTTCACTGGTTATTATCTGGGCCAGGAGTCTCTGGTCAACCGTCTCC 417  
QY 421 TCA 423  
Db 418 TCA 420

RESULT 6

US-08-379-072A-19  
; Sequence 19, Application US/08379072A  
; Patent No. 5658570  
; GENERAL INFORMATION:  
; APPLICANT: NEWMAN, Roland A.  
; APPLICANT: HANNA, Nabil  
; APPLICANT: RAAB, Ronald W.  
; TITLE OF INVENTION: RECOMBINANT ANTIBODIES FOR HUMAN THERAPY  
; NUMBER OF SEQUENCES: 20  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Burns, Doane, Swecker & Mathis  
; STREET: P.O. Box 1404  
; CITY: Alexandria  
; STATE: Virginia  
; COUNTRY: United States  
; ZIP: 22313-1404  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/379,072A  
; FILING DATE: 25-JAN-1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/912,292  
; FILING DATE: 10-JUL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/856,281  
; FILING DATE: 23-MAR-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/735,064  
; FILING DATE: 25-JUL-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Rea, Teresa Stanek  
; REGISTRATION NUMBER: 30,427  
; REFERENCE/DOCKET NUMBER: 012712-067  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 836-6620  
; TELEFAX: (703) 836-2021  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 423 base pairs  
; TYPE: nucleic acid



STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/476,237  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/856,281  
FILING DATE: 23-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/735,064  
FILING DATE: 25-JUL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Teskin, Robin L.  
REGISTRATION NUMBER: 35,030  
REFERENCE/DOCKET NUMBER: 012712-133  
TELEPHONE: (703) 836-6620  
TELEFAX: (703) 836-2021  
INFORMATION FOR SEQ ID NO: 15:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 423 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-476-237-15

Query Match 70.5%; Score 298.2; DB 1; Length 423;  
Best Local Similarity 83.2%; Pred. No. 7.7e-78;  
Matches 352; Conservative 0; Mismatches 68; Indels 3; Gaps 1;  
QY 1 ATGAACACCTGTGGTTCTTCTCTCTGTTGGGAGCTCCAGATGGTCTGTCCAG 60  
DB 4 ATGAACACCTGTGGTTCTTCTCTCTGTTGGGAGCTCCAGATGGTCTGTCCAG 63  
QY 61 CTGCAGCTGCAGGAGTCCGGGCCCCAGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120  
DB 64 GTGCAGCTGCAGGAGGCGGCCCCAGGACTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 123  
QY 121 TCGGCTGTCTGTGGCTCTGTGCAGCTAGTAACTGTGGACCTGGATCCGCCAGGCC 180  
DB 124 TGCAGTGTCTGTGGTCTCCATCAGCGGTGACTATTATTGGTCTGGATCCGCCAGTCC 183  
QY 181 CCAGGAGGAGGACTGGAGTGGATTGGACGTATCTCTGGTAGTGGTGGGCCACCACTAC 240  
DB 184 CCAGGAGGAGGACTGGAGTGGATTGGCTACATCTATGGCAGTGGTGGGGGACCAATTAC 243  
QY 241 AACCCGTCCCTCAAGAGTCCAGTTCATPTTCAAGACACGTCACCAAGAACCCAGTTCTCC 300  
DB 244 AATCCCTCCCTCAACAATCGAGTCTCCATTTCATATAGACACGTCACCAAGAACCTCTTCTCC 303  
QY 301 CTGAACCTGAATCTGTGACCCCGGACACGGCGGTATTTACTGTGCAGAGATTGG 360  
DB 304 CTGAACCTGAAGTCTGTGACCCCGGACACGGCGGTCTATTACTGTGCGAGTAAT--- 360  
QY 361 GCCCAATAGCTGGAACAACGCTAGGCTTCTCGGGCCAGGAGTCTGTGTACCGCTTCC 420  
DB 361 ATATTGAATATCTTCACTGGTTATTATATCTGGGCGCAGGAGTCTGTGTACCGCTTCC 420  
QY 421 TCA 423  
DB 421 TCA 423

RESULT 9  
US-08-478-039-107

Sequence 107, Application US/08478039  
Patent No. 5681722  
GENERAL INFORMATION:  
APPLICANT: Newman, Roland A.  
APPLICANT: Hanna, Nabil  
APPLICANT: Raab, Ronald W.  
TITLE OF INVENTION: Recombinant Antibodies for Human Therapy  
NUMBER OF SEQUENCES: 114  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS  
STREET: 699 Prince St.  
CITY: Alexandria  
STATE: VA  
COUNTRY: USA  
ZIP: 22313-1404  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/478,039  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/379,072  
FILING DATE: 25-JAN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/912,292  
FILING DATE: 10-JUL-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/856,281  
FILING DATE: 23-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/735,064  
FILING DATE: 25-JUL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Teskin Esq., Robin L.  
REGISTRATION NUMBER: 35,030  
REFERENCE/DOCKET NUMBER: 012712-160  
TELEPHONE: 703-836-6620  
TELEFAX: 703-836-2021  
INFORMATION FOR SEQ ID NO: 107:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 420 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: peptide  
ORGANISM: Monkey  
POSITION IN GENOME:  
CHROMOSOME/SEGMENT: Anti-CD4 VH  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 4..420  
FEATURE:  
NAME/KEY: mat\_peptide  
LOCATION: 61..420  
US-08-478-039-107

Query Match 69.8%; Score 295.2; DB 1; Length 420;  
Best Local Similarity 83.1%; Pred. No. 5.7e-77;  
Matches 349; Conservative 0; Mismatches 68; Indels 3; Gaps 1;  
QY 1 ATGAACACCTGTGGTTCTTCTCTCTGTTGGGAGCTCCAGATGGTCTGTCCAG 60  
DB 4 ATGAACACCTGTGGTTCTTCTCTCTGTTGGGAGCTCCAGATGGTCTGTCCAG 63  
QY 61 CTGCAGCTGCAGGAGTCCGGGCCCCAGGAGTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 120  
DB 64 GTGCAGCTGCAGGAGGCGGCCCCAGGACTGGTGAAGCCTTCGGAGACCTGTCCCTCACC 123









Query Match	63.4%;	Score 268;	DB 2;	Length 426;
Best Local Similarity	81.5%;	Prod. No. 4.8e-69;		
Matches 352;	Conservative	0;	Mismatches 65;	Indels 15; Gaps 3
Qy	1	ATGAAACACCTGTGTTCTTCTCTCTCTGTGGCAGCTCCACAGATGGTCTCTGTCCCAAG	60	
Db	1	ATGGNACATCTGTGGTTCTTCTTCTCTGTGTGGCAGCTCCACAGATGGTCTGTGCCAG	60	
Qy	61	CTGCAGCTGCAGGAGCTCGGGCCACAGGATGTTGGAAGCCTTCGGAGACCTGTCTCTACC	120	
Db	61	GTGCAGCTGCAGGAGCTTGGGCCACGAGCTTGGTGAAGCCTTCGGAGACCTGTCTCTACC	120	
Qy	121	TGCGCTGTCTCTGTGTGGCTCTGTACAGCAGTACTAATCTGTGTGACCTTGATCGCCAGGCC	180	
Db	121	TGCACCTGTCTCTGGNGGCTC---CATCAGTAGTCACTACTGGAGCTTGATCCGCAGTCC	177	
Qy	181	CCAGGGAAGGACCTGGAGTGGATTGGACGTATCTCTGGTAGTGTGGGGCCACCAACTAC	240	
Db	178	CCAGGGAAGGACCTGCAGTGGATTGGATATATCTACTACA---GTGGGAGCACCAACTAC	234	
Qy	241	AACCCGTCCTCTCAAGAGTCGAGTCAATATTCACAAGACACGTCCAAGAACCAAGTTCTCC	300	
Db	235	AGCCCTCCTCTCAAGAGTCGAGTCACTATATCAGTAGAGCTCCAGAACCAAGTTCTCC	294	
Qy	301	CTGAACCTGAACTCTGTGAACCGCCGGAACACGGCCGTGTATTACTGTGCCAGAGATTGG	360	
Db	295	CTGAAGCTGACCTCTATACCGCTCTGCACACGGCCGTGTATTATTGTGCACAGAGCCCC	354	
Qy	361	GCCCAA-----ATAGCTGGAAACAACGCTAGGCTTCTGGGGCCAGGAGTCTCTGGTC	411	
Db	355	GTCCAGCTGTCTTCTACGGTGACTACCGACTCGACCTTGGGGCCAGGAAACCTCTGGTC	414	
Qy	412	ACCGTCTCCTCA	423	
Db	415	ACCGTCTCCTCA	426	

RESULT 15  
US-09-042-353-357  
; Sequence 357, Application US/09042353  
; Patent No. 6255458  
; GENERAL INFORMATION:  
; APPLICANT: Lonberg, Nils  
; APPLICANT: Kay, Robert W.  
; TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for  
; TITLE OF INVENTION: Producing Heterologous Antibodies  
; NUMBER OF SEQUENCES: 421  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/042,353  
; FILING DATE: 13-MAR-1998  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/810,279  
; FILING DATE: 17-DEC-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/853,408  
; FILING DATE: 18-MAR-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/904,068  
; FILING DATE: 23-JUN-1992  
; PRIOR APPLICATION DATA:







RESULT 2	E40896	729 bp	DNA	linear	PAT 31-JAN-2002
LOCUS	E40896				
DEFINITION	Humanized anti-Fas antibody.				
ACCESSION	E40896				
VERSION	E40896.1	GI:18627473			
KEYWORDS	JP 2000166574-A/85.				
SOURCE	Homo sapiens.				
ORGANISM	Homo sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				

REFERENCE	1 (bases 1 to 729)	
AUTHORS	Serizawa,N., Haruyama,H., Nakahara,K. and Tamaki,I.	
TITLE	Humanized anti-Fas antibody	
JOURNAL	Patent: JP 2000166574-A 85 20-JUN-2000;	
COMMENT	SANKYO CO LTD	
OS	Homo sapiens (human)	
PN	JP 2000166574-A/85	
PD	20-JUN-2000	
PF	29-SEP-1999 JP 1999275441	
PR		
PI	NORUKI SERIZAWA,HIDEYUKI HARUYAMA,KAORI NAKAHARA,IKUKO TAMAKI	
PC	C12N15/09,A61K39/00,A61K39/395,A61K39/395,A61P37/02,A61P43/00,	
PC	C07K16/18,	
PC	C12N1/21,C12N5/10,C12P21/08//((C12N1/21,C12R1:19),C12N15/00,PC	
C12N5/00		
CC		
FH	Key Location/Qualifiers	
FT	source 1..729	
FT	/organism='Homo sapiens (human)'	
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	/organism='Homo sapiens'	
	/db_xref='taxon:9606'	
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Best Local Similarity	92.8%; Pred. No.1.2e-101;	
Matches 359; Conservative	0; Mismatches 28; Indels 0; Gaps 0;	
Qy	1 ATGGACATGAGGTCCC CGCTCAGCTCTCTGGGGTCCCTTCCTCTCGTCTGCCAGGTGCC 60       Db	7 ATGGACATGAGGTCCC CGCTCTGCTCTCTGGGGTCCCTGCTACTCTGGCTCCGAGGTGCC 66 
Qy	61 AGATGTGACATCAGATGACCAGTCTCCATCTTCCTGTCTGCATCTCTGCGATCTCTAGGGACAGA 120 	
Db	67 AGATGTGACATCAGATGACCAGTCTCCATCTCCCTGTCTGCATCTCTAGGAGACAGA 126 	
Qy	121 GTCAACCATCAC TTGGAGGCAAGTCAGGACATTAGTGATTTTAAATTGGTATCAGCAG 180 	
Db	127 GTCAACCATCAC TTGCGGGCAAGTCAGACATTAGCAGCTATTTAAATTGGTATCAGCAG 186 	
Qy	181 AAACAGGAAAAAGCTCTTAAGCTCCCTGATCTATGTGTGCATCCAGTTTGCAAAAGTGGGTC 240 	
Db	187 AAACAGGAAAAAGCTCTTAAGCTCCCTGATCTATGTGTGCATCCAGTTTGCAAAAGTGGGTC 246 	
Qy	241 CCATCAAGTTTCAGCGGAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCCTG 300 	
Db	247 CCATCAAGTTTCAGTGGCAGTGGATCTGGGACAGATTTTCACCTCTCACCATCAGCAGCTG 306 	
Qy	301 CAGCCTGAAGATTTTTCGCACTTTACTCTGTACAGGTTTTTAGTACCCCTCGGACGTTTC 360 	
Db	307 CAACCTGAAGATTTTTCGAACCTTACTCTGTCAACAGATTACAGTACCCCTCGAACGTTTC 366 	
Qy	361 GGCCAAGGGACCAAGGTGGAAATCAA 387 	
Db	367 GGCCAAGGGACCAAGGTGGAAATCAA 393 	
RESULT 3		
LOCUS	MMU57571	
DEFINITION	Macaca mulatta Ig rearranged light chain variable region, anti-RBC	
ACCESSION	U57571	
VERSION	U57571.1	
KEYWORDS	GI:1575089	
SOURCE	Macaca mulatta.	
ORGANISM	Macaca mulatta	
REFERENCE	1 (bases 1 to 390) Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae; Cercopithecinae; Macaca.	





Db 301 CAACCTGAAGATTTTGCACCTTACTACTGTCAACAGAGTTACAGTACCCCTCAGACGTTTC 360  
 QY 361 GCCCAAGGACCAAGGTGGAATCAAA 387  
 Db 361 GCCCAAGGACCAAGGTGGAATCAAA 387

## RESULT 5

HUMIGKFN  
 LOCUS HUMIGKFN 406 bp mRNA linear PRI 28-OCT-1994  
 DEFINITION Human rearranged IgK mRNA VJC region.  
 ACCESSION M87478  
 VERSION 1 GI:185950  
 KEYWORDS C-region; J-region; V-region; immunoglobulin kappa-chain; immunoglobulin light chain.  
 SOURCE Homo sapiens (individual isolate patient CHEB) bone marrow CDNA to mRNA.

## ORGANISM

Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 1 (bases 1 to 406)  
 AUTHORS Auconturier, P., Bauwens, M., Khamlichi, A.A., Denoroy, L., Spinelli, S., Touchard, G., Preud'homme, J.B. and Cogne, M.  
 TITLE Monoclonal Ig L chain and L chain V domain fragment crystallization in myeloma-associated Fanconi's syndrome  
 JOURNAL J. Immunol. 150 (8 Pt 1), 3561-3568 (1993)  
 MEDLINE 93224763  
 PUBMED 8468490

## FEATURES

## Location/Qualifiers

1. .406  
 /organism="Homo sapiens"  
 /isolate="patient CHEB"  
 /db\_xref="taxon:9606"  
 /map="2p12"  
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 /tissue\_type="bone marrow"  
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 /gene="IgK"  
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 CRASOTIATFLNWOQKPKAPKLLIYGASSIQSGVPSRFSGSGSDFTLTISLQ  
 EDFATYVCOQSYSIPTWTGQGTKEIKRTVAAP"

## sig\_peptide

2. .55  
 /gene="IgK"

## mat\_peptide

56. .>406  
 /gene="IgK"

## V\_region

56. .388  
 /product="immunoglobulin kappa chain"

/gene="IgK"

/note="V1-J1 region"

<389. .>406  
 /gene="IgK"

/note="This CDS feature is included to show the

translation of the corresponding C-region. Presently  
 translation qualifiers on C\_region features are illegal."

/codon\_start=1

/protein\_id="AAAS1020.1"

/db\_xref="GI:561655"

/translation="RTVAAP"

389. .>406  
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97 a 113 c 102 g 94 t

## C\_region

BASE COUNT

## ORIGIN

Query Match 85.9%; Score 332.6; DB 9; Length 406;  
 Best Local Similarity 91.2%; Pred. No. 1.7e-98;  
 Matches 353; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 1 ATGGACATGAGGGTCCCGCTCAGCTCCTGGGGCTCCTTCTGCTCTGGCTCCCGAGTGCC 60  
 Db 2 ATGGACATGAGGGTCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAGTGCC 61  
 QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTCCCTGTCTGTCATCTGTAGGGGACAGA 120  
 Db 62 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTCCCTGTCTGTCATCTGTAGGGACAGA 121  
 QY 121 GTCACCATCACTTCAGGGCAAGTCAGACATAGGTATTATTAAATTTGTTATCAGCAG 180  
 Db 122 GTCACCTTCCTTCGCGGCAAGTCAGACATGCCACCTTTTAAATTTGTTATCAGCAG 181  
 QY 181 AAACAGAGAAAGCTCCTAAGCTCCTGATCTATGTCATCCAGTTTGCAAGTGGGTC 240  
 Db 182 AAACCGGGAAGCCCTAAGCTCCTGATCTATGTCATCCAGTTTGCAAGTGGGTC 241  
 QY 241 CCATCAAGTTTCAGGGCAGTGGATCTGGGACAGATTCATCTCAGCTCAGCAGCCTG 300  
 Db 242 CCATCAAGTTTCAGTGGCAGTGGATCTGGGACAGATTCATCTCAGCTCAGCAGTCTG 301  
 QY 301 CAGCTTGAAGATTTTGGCACTTATTACTGTCTCAGGTTTATAGTACCCCTCGGACGTTTC 360  
 Db 302 CAACCTGAAGATTTTGAACCTTACTGTCTCAACAGAGTTACAGTATCCCTGGACGTTTC 361  
 QY 361 GCCCAAGGACCAAGGTGGAATCAAA 387  
 Db 362 GCCCAAGGACCAAGGTGGAATCAAA 388

## RESULT 6

AF228327  
 LOCUS AF228327 400 bp DNA linear PRI 20-JUL-2000  
 DEFINITION Homo sapiens clone BUS immunoglobulin light chain variable region  
 gene, partial cds.

ACCESSION AF228327

VERSION AF228327.1 GI:9295292

KEYWORDS

SOURCE

Homo sapiens.

ORGANISM

Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
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 /db\_xref="taxon:9606"  
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 /clone="BUS"  
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 /note="isolated from B-cell chronic lymphocytic leukemia patient"

2 (bases 1 to 400)  
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 /chromosome="14"  
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 /clone="BUS"  
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 /note="isolated from B-cell chronic lymphocytic leukemia patient"

Direct Submission  
 Submitted (13-JAN-2000) Physiopathology, Institut Pasteur, 28 rue  
 du Dr Roux, Paris 75015, France

Location/Qualifiers

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/organism="Homo sapiens"

/db\_xref="taxon:9606"

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/note="unmutated"

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 RASQISINLWNWQKPKAPKLLIHAASSIQSGVPSRFSGSGSDFTLTISLQPE  
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99 a 109 c 100 g 92 t

## BASE COUNT

## ORIGIN







SOURCE Homo sapiens.  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
TITLE 1 (bases 1 to 370)  
JOURNAL Direct Submission  
Submitted (26-APR-1993) H.G. Zachau, Institut fuer Physiologische  
Chemie, der Universitaet Muenchen, Schillerstr 44, 8000 Muenchen 2,  
FRG  
REFERENCE 2 (bases 1 to 370)  
AUTHORS Klein,R., Jaenichen,R. and Zachau,H.G.  
TITLE Expressed human immunoglobulin kappa genes and their hypermutation  
JOURNAL Eur. J. Immunol. 23 (12), 3248-3262 (1993)  
MEDLINE 94080891  
PUBMED 8258341  
FEATURES  
Location/Qualifiers  
1..370  
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J\_segment 335..370  
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Best Local Similarity 93.0%; Pred. No. 4.1e-97;  
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QY 18 CGCTCAGCTCTCGGGGCTCTTCTGCTCTGGCTCCAGTGCCAGATGTGACATCCAGAT 77  
DB 1 CGCTCAGCTCTCTGGGCTCTGCTACTCTGGCTCGAGGTGCCAGATGTGACATCCAGAT 60  
QY 78 GACCCAGTCTCCATCTTCCTCTCTGCTCTGCTAGGGGACAGTCACCATCCTTGCAG 137  
DB 61 GACCCAGTCTCCATCTTCCTCTCTGCTCTGCTAGGACAGTCACCATCCTTGCAG 120  
QY 138 GGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGCAGAAACCCAGGAAAGTCC 197  
DB 121 GGCAAGTCAGGACATTAGGACATTATTTAAATTGGTATCAGCAGAAACCCAGGAAAGTCC 180  
QY 198 TAAGCTCTGTATCTATGTGATTCAGTTTGCAAGTGGGTCCCATCAAGTTTCAGGG 257  
DB 181 TAAGCTCTGTATCTATGTGATTCAGTTTGCAAGTGGGTCCCATCAAGTTTCAGGG 240  
QY 258 CAGTGGATCTGGGACAGAGTTCACCTCTACCGTGCAGACGCTGCAGCCTGAAGATTTTGC 317  
DB 241 CAGTGGATCTGGGACAGAGTTCACCTCTACCGTGCAGACGCTGCAGCCTGAAGATTTTGC 300  
QY 318 GACTTATTACTGTCTACAGTTTATAGTACCCCTCGGAGCTTCGGCCAAAGGACCAAGT 377  
DB 301 AACTTACTACTGTCAACAGAGTTACAGTACCCCTCGGAGCTTCGGCCAAAGGACCAAGT 360  
QY 378 GGAATCAAA 387  
DB 361 GGAATCAAA 370

RESULT 13  
HSPBLIGVD  
LOCUS HSPBLIGVD 396 bp mRNA linear PRI 02-SEP-1994  
DEFINITION H.sapiens rearranged mRNA for Ig light chain variable region (VJ).  
ACCESSION Z27173  
VERSION 227173.1 GI:415961  
KEYWORDS immunoglobulin; immunoglobulin light chain; joining region;  
variable region.  
SOURCE Homo sapiens.  
ORGANISM Homo sapiens  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
TITLE 1 (bases 1 to 396)  
JOURNAL Bension,C., Chastagner,P. and Zouali,M.  
MEDLINE Unpublished  
PUBMED Low rate of receptor-editing in human lupus anti-DNA autoantibodies  
REFERENCE 2 (bases 1 to 396)  
AUTHORS Zouali,M.  
TITLE Direct Submission  
JOURNAL Submitted (03-NOV-1993) M. Zouali, Institut Pasteur,  
Immunogenetique Cellulaire, 28 Rue du Dr. Roux, 75015 Paris, FRANCE  
REFERENCE 3 (bases 1 to 396)  
AUTHORS Bension,C., Chastagner,P. and Zouali,M.  
TITLE Human lupus anti-DNA autoantibodies undergo essentially primary V  
kappa gene rearrangements  
JOURNAL EMBO J. 13 (13), 2951-2962 (1994)  
MEDLINE 94313975  
PUBMED 8039491  
FEATURES  
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Matches 349; Conservative 0; Mismatches 38; Indels 0; Gaps 0;  
QY 1 ATGACATGAGGGTCCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGCTCCAGGTGCC 60  
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DB 67 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGA 126  
QY 121 GTCACCATCATTTCAGGGGCAAGTCAGGACATTAGGTATTATTTAAATTGATCAGCAG 180  
DB 127 GTCACCATCATTTCAGGGGCAAGTCAGGACATTAGGTATTATTTAAATTGATCAGCAA 186  
QY 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTGTGATCCAGTTCAGTTTGCAGAGTGGGTC 240  
DB 187 AAACAGGAAAGCTCTTAAGCTCTGATCTATGCTGCATCCACTTTTGCAGAGTGGGTC 246  
QY 241 CCATCAAGGTTTCAGGGGAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCCTG 300



[illegible]

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/lab\_host="DH10B (LT1)"  
/note="Vector: pRTT3-Pac; Site\_1: NotI; Site\_2: Eco RI;  
Constructed from size fractionated cytoplasmic mRNA  
(1.5-2.5kb). Directionally cloned. Cells provided by Louis  
M. Staudt, Ph.D. Library preparation by Maria de Fatima  
Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT 117 a 138 c 119 g 119 t

Query Match 88.7%; Score 343.4; DB 10; Length 493;  
Best Local Similarity 93.2%; Pred. No. 1.8e-96;  
Matches 359; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 3 GGACATAGGGTCCCGCTCAGCTCTGGGGTCTCTTCTGCTCTGGTCCCGAGTGCCAG 62  
DB 8 GGACATAGGGTCCCGCTCAGCTCTGGGGTCTCTTCTGCTCTGGTCCCGAGTGCCAG 67  
QY 63 ATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGTCATCTGTAGGGGACAGAGT 122  
DB 68 ATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGTCATCTGTAGGGGACAGAGT 127  
QY 123 CACCATCACTTTCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAGAA 182  
DB 128 CACCATCACTTTCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAGAA 187  
QY 183 ACCAGGAAAGTCTTAAGTCTCTGATCTATGTTGATCCAGTTTGCAGAGTGGGGTCCC 242  
DB 188 ACCAGGAAAGTCTTAAGTCTCTGATCTATGCTGATCCAGTTTGCAGAGTGGGGTCCC 247  
QY 243 ATCAAGTTTCAGGGCAGTGGATCTGGGACAGATTCACTCTCAGCCGTCAGCAGCTGCA 302  
DB 248 ATCAAGTTTCAGGGCAGTGGATCTGGGACAGATTCACTCTCAGCATCAGCAGTCTGCA 307  
QY 303 GCCTGAAGATTTTGGCAGTTTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTCCG 362  
DB 308 ACCTGAAGATTTTGCAGTTTACTGTCTACAGAGTTACAGTACCCCTCGGACGTTCCG 367  
QY 363 CCAAGGACCAAGTGGGAATCAAA 387  
DB 368 CCAAGGACCAAGTGGGAATCAAA 392

RESULT 2  
BQ882857  
LOCUS AGENCOURT\_8616470 NIH\_MGC\_113 Homo sapiens cDNA clone IMAGE:6302159  
DEFINITION 5', mRNA sequence.

ACCESSION BQ882857  
VERSION BQ882857  
KEYWORDS EST.  
SOURCE human.

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 923)  
AUTHORS NIH-MGC http://mgi.nci.nih.gov/  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgabbs-remail.nih.gov

Tissue Procurement: Dr. Mark Watson  
CDNA Library Preparation: Rubin Laboratory  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov  
Plate: LICM2519 row: c column: 24  
High quality sequence stop: 672.

FEATURES  
source

Location/Qualifiers  
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/db\_xref="taxon:9606"  
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/note="Organ: spleen; Vector: pOTB7; Site\_1: XhoI; Site\_2:  
EcoRI; cDNA made by oligo-dT priming. Directionally cloned  
into EcoRI/XhoI sites using the following 5' adaptor:  
GGCAGCAG(G). Library constructed by Ling Hong in the  
laboratory of Gerald M. Rubin (University of California,  
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and  
Superscript II RT (Life Technologies). Note: this is a  
NIH MGC Library."

BASE COUNT 219 a 274 c 224 g 201 t 5 others

ORIGIN

Query Match 88.0%; Score 340.6; DB 14; Length 923;  
Best Local Similarity 92.5%; Pred. No. 2.1e-95;  
Matches 358; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 1 ATGACATGAGGGTCCCGCTCAGCTCTGGGGTCTCTTCTGCTCTGGTCCCGAGTGCC 60  
DB 13 ATGACATGAGGGTCCCGCTCAGCTCTGGGGTCTCTTCTGCTCTGGTCCCGAGTGCC 72  
QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGTCATCTGTAGGGGACAGA 120  
DB 73 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGTCATCTGTAGGGGACAGA 132  
QY 121 GTCACATCACTTTCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAG 180  
DB 133 GTCACATCACTTTCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAG 192  
QY 181 AAACCCAGGAAAGTCTTAAGTCTCTGATCTATGTTGATCCAGTTTGCAGAGTGGGGTCC 240  
DB 193 AAACCCAGGAAAGTCTTAAGTCTCTGATCTATGTTGATCCAGTTTGCAGAGTGGGGTCC 252  
QY 241 CCATCAAGGTTTCAGCGCAGTGGATCTGGGACAGATTCACTCTCAGCGTCAGCAGCTG 300  
DB 253 CCATCAAGGTTTCAGCGCAGTGGATCTGGGACAGATTCACTCTCAGCATCAGCAGTCTG 312  
QY 301 CAGCCTGAAGATTTTGGCAGTTTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360  
DB 313 CAACCTGAAGATTTTGCAGTTTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 372  
QY 361 GGCCAAAGGACCAAGTGGGAATCAAA 387  
DB 373 GGCCAAAGGACCAAGTGGGAATCAAA 399

RESULT 3

BQ540787

LOCUS BQ540787

DEFINITION BQ540787.1 GI:13533020

ACCESSION BQ540787

VERSION BQ540787.1

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 891)

AUTHORS NIH-MGC http://mgi.nci.nih.gov/

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgabbs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.

BQ540787 891 bp mRNA linear EST 03-APR-2001  
602570674F1 NIH\_MGC\_77 Homo sapiens cDNA clone IMAGE:4695114 5',  
mRNA sequence.

ACCESSION BQ540787

VERSION BQ540787.1

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 891)

AUTHORS NIH-MGC http://mgi.nci.nih.gov/

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgabbs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.



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KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 724)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE NIH-MGC
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Prepared by: The I.M.A.G.E. Consortium (LLNL)
cDNA Library Arrayed by: Incyte Genomics, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1506 row: m column: 04
High quality sequence stop: 573.
Location/Qualifiers
1..724
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4689963"
/clone_lib="NIH MGC 77"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: lung; Vector: pDNR-LIB (Clontech); Site: 1:
SfiI (ggccgctggcc); Site 2: SfiI (ggccattggcc); 5' and
3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CACGCCATTATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCGCGCCGATG-dT(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.9
kb (range 0.5-4.0 kb). 12/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH MGC Library."
BASE COUNT 190 a 204 c 181 g 145 t
ORIGIN
Query Match 85.2%; Score 329.6; DB 12; Length 724;
Best Local Similarity 92.3%; Pred. No. 5e-92;
Matches 358; Conservative 0; Mismatches 29; Indels 1; Gaps 1;
QY 1 ATGGACATGAGGTCCCGCTCAGCTCCCTGGGGCTCTCTGCTCTGCTCCAGGTGCC 60
Db |||||
QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGA 120
Db |||||
QY 85 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGA 144
Db |||||
QY 121 GTCACATCATTGACAGGCAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 180
Db |||||
QY 145 GTCACATCATTGCGGGCAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 204
Db |||||
QY 181 AAACAGGAAAGCTTCTAAGCTCTGATCTATGTCATCCAGTTTGCAGTTGGGGTC 240
Db |||||
QY 205 AAACAGGAAAGCTTCTAAGCTCTGATCTATGTCATCCAGTTTGCAGTTGGGGTC 264
Db |||||
QY 241 CCATCAAA-CGTTTCAGGGCAGTGGATCTGGGACAGAGTTTCACTCTCAGCAGGCT 299
Db |||||
QY 265 CCATCAAGGTTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCAGCAGTCT 324
Db |||||
QY 300 GCAGCTGAAGATTTTGGACATTATTACTGTCTACAGGTTTATAGTACCCCTCGACGTT 359
Db |||||
QY 325 GCAACCTGAAGATTTTGCAGCTTACTACTGTCAACAGAGATTACAGTAACCCCTCGACGTT 384
Db |||||
QY 360 CGGCCAAGGACCAAGGTGGAATCAAA 387
Db |||||
QY 385 CGGCCAAGGACCAAGGTGGCAATCAAA 412
Db |||||

RESULT 6
LOCUS BG754732 867 bp mRNA linear EST 15-MAY-2001
DEFINITION 602714301P1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4854409 5',
          mRNA sequence.
ACCESSION BG754732
VERSION BG754732.1 GI:14065385
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 867)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE NIH-MGC
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Prepared by: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLCM1702 row: a column: 02
High quality sequence stop: 805.
Location/Qualifiers
1..867
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4854409"
/clone_lib="NIH MGC 48"
/tissue_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Size-selected
for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."
BASE COUNT 225 a 245 c 215 g 182 t
ORIGIN
Query Match 85.1%; Score 329.4; DB 12; Length 867;
Best Local Similarity 90.7%; Pred. No. 6.5e-92;
Matches 351; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
QY 1 ATGGACATGAGGTCCCGCTCAGCTCCCTGGGGCTCTCTGCTCTGCTCCAGGTGCC 60
Db |||||
QY 19 ATGGACATGAGGTCCCGCTCAGCTCCCTGGGGCTCTCTGCTCTGCTCCAGGTGCC 78
Db |||||
QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGA 120
Db |||||
QY 79 AGATGTGACATCCAGTGTGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGA 138
Db |||||
QY 121 GTCACATCATTGACAGGCAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 180
Db |||||
QY 139 GTCACATCATTGCGGGCAAGTCAGGACATTAGGTATTTAGCCCTGGTATCAGCAG 198
Db |||||
QY 181 AAACAGGAAAGCTTCTAAGCTCTGATCTATGTCATCCAGTTTGCAGTTGGGGTC 240
Db |||||
QY 199 AAACAGGAAAGCTTCTAAGCTCTGATCTATGTCCTCAGTTTGCAGTTGGGGTC 258
Db |||||
QY 241 CCATCAAGGTTTCAGCGGCAAGTGGATCTGGGACAGAGTTTCACTCTCAGCAGGCTG 300
Db |||||
QY 259 CTTCAAGGTTTCAGCGGCAAGTGGATCTGGGACAGATTTCACTCTCAGCAGGCTG 318
Db |||||
QY 301 CAGCCTGAAGATTTTGGACATTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360
Db |||||
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QY 121 GTCACCATCATTGTCAGGGCAAGTCAGGACATTAGGTATTTATTTAAATTTGGTATCAGCAG 180  
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 Db 147 GTCACCATCATTGTCGGGCAAGTCACAGCATTTAGCAACTATTTAAATTTGGTATCAGCAG 206  
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 QY 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTTGTCATCAGTTTGGCAAAGTGGGGTC 240  
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 Db 207 AAACAGGAAAGCCCTTAAGATCCTGATCTATGTTGTCATCAGTTTGGCAAAGTGGGGTC 266  
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 QY 241 CCATCAAGGTTTCAGGGCAGTGTGATCTGGGACAGAGTTCACTCTACCGTTCAGCAGCCTG 300  
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 Db 267 CCATCAAGGTTTCAGTGGGAGTGTGATCTGGGACAGATTTCACTCTCACCATCAGCATCTG 326  
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 QY 301 CAGCCTGAAGATTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGAGTTTC 360  
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 Db 327 CAACTTGAAGATTTTCGCACTTACTACTGTCAACAGAGTTACACTACACGGTCACTTTTC 386  
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 QY 361 GGGCAGGAGGACCAAGGTGGAATCAAA 387  
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 Db 387 GGGCAGGAGGACCAAGGTGGAATCAAA 413  
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RESULT 9  
 AW404992  
 LOCUS  
 DEFINITION  
 UI-HF-BLO-abx-a-03-0-UI.r1 NIH\_MGC\_37 Homo sapiens cDNA clone  
 IMAGE:3058060 5', mRNA sequence.  
 ACCESSION  
 AW404992  
 VERSION  
 AW404992.1 GI:6924049  
 KEYWORDS  
 EST.  
 SOURCE  
 human.  
 ORGANISM  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE  
 1 (bases 1 to 391)  
 NIH-MGC http://mgi.nci.nih.gov/.  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 COMMENT  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgabs-r@mail.nih.gov  
 Eco RI site shown at the beginning of the sequence.  
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
 cDNA Library Preparation: M.B. Soares Lab  
 cDNA Library Arrayed by: M.B. Soares Lab  
 DNA Sequencing by: M.B. Soares Lab  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 www.biol.llnl.gov/bbrp/image/image.html  
 Seq primer: M13 Forward.

FEATURES  
 source  
 1..391  
 /organism="Homo sapiens"  
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 /cell\_type="germinal center B cells"  
 /cell\_line="MGC85"  
 /lab\_host="DH10B (LT1)"  
 /note="Vector: p7T3-Pac; Site1: NotI; Site2: Eco RI;  
 Constructed from size fractionated cytoplasmic mRNA  
 (1.5-2.5kb). Directionally cloned. Cells provided by Louis  
 M. Staudt, Ph.D. Library preparation by Maria de Fatima  
 Bonaldo, Ph.D. and M. Bento Soares, Ph.D."  
 BASE COUNT 98 a 108 c 94 g 91 t  
 ORIGIN  
 Query Match 84.4%; Score 326.6; DB 10; Length 391;  
 Best Local Similarity 91.1%; Pred. NO. 2.9e-91;  
 Matches 347; Conservative 0; Mismatches 34; Indels 0; Gaps 0;  
 QY 7 ATGAGGTCCTCCAGTCCTGGGGCTCTCTCTCTGCTCCAGGTCAGATGT 66  
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 Db 5 AGGAGGGTCCCGCTCAGCTCTGGGGCTCTCTCTCTGCTCCAGGTCAGATGT 64  
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QY 67 GACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGAGTCACC 126  
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 Db 65 GACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGAGTCACC 124  
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 QY 127 ATCACTTCGAGGGCAAGTCAGGACATTAGGTATTTATTTAAATTTGGTATCAGCAGAAACA 186  
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 Db 125 ATCACTTCGCGGGCAAGTCAGGACATTAGCAGCTATTTAAATTTGGTATCAGCAGAAATCA 184  
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 QY 187 GGAAAGCTCTTAAGCTCTGATCTATGTTGCACTCCAGTTTGCCTCAAGTGGGGTCCCATCA 246  
 |||||  
 Db 185 GGGAAAGCCCTTAAGCTCTGATCTATGCTGCATCCAGTTTGCCTCAAGTGGGGTCCCATCA 244  
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 QY 247 AGGTTTCAGGGCAGTGGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCCTCGAGCCT 306  
 |||||  
 Db 245 AGGTTTCAGTGGCAGTGGGATCTGGGACAGATTTCACTCTCACCATCAGCAGCTACAACCT 304  
 |||||  
 QY 307 GAAGATTTTGGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTCGGCCAA 366  
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 Db 305 GAAGATTTTGCATTTACTACTGTCTCAGCAGAGTTACAGTATCCCTCTACGTTTCGGCCAA 364  
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 QY 367 GGGACCAAGGTGGAAATCAAA 387  
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 Db 365 GGGACCAAGGTGGAAATCAAA 385  
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RESULT 10  
 AW383563  
 LOCUS  
 DEFINITION  
 PM4-HT0348-261199-001-A07 HT0348 Homo sapiens cDNA, mRNA sequence.  
 ACCESSION  
 AW383563  
 VERSION  
 AW383563.1 GI:6888131  
 KEYWORDS  
 EST.  
 SOURCE  
 human.  
 ORGANISM  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE  
 1 (bases 1 to 453)  
 HCGP http://www.ludwig.org.br/ORESTES.  
 The FAPESP/LICR Human Cancer Genome Project  
 UNPUBLISHED (1999)  
 COMMENT  
 Contact: Simpson A.J.G.  
 Laboratory of Cancer Genetics  
 Ludwig Institute for Cancer Research  
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,  
 Brazil  
 Tel: +55-11-2704922  
 Fax: +55-11-2707001  
 Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/LICR Human Cancer Genome  
 Project. This entry can be seen in the following URL  
 (http://www.ludwig.org.br/scripts/gethtml2.pl?l=PM4&t2=PM4-HT0348-  
 261199-001-A07&t3=1999-11-26&t4=1)  
 Seq primer: puc 18 forward  
 High quality sequence stop: 452.  
 Location/Qualifiers  
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 /db\_xref="taxon:9606"  
 /clone\_lib="HT0348"  
 /dev\_stages="Adult"  
 /note="Organ: head neck; Vector: puc18; Site 1: SmaI;  
 Site 2: SmaI; A mini-library was made by cloning products  
 derived from ORESTES PCR (U.S. Letters Patent application  
 No. 196,716 - Ludwig Institute for Cancer Research)  
 profiles into the pUC 18 vector. Reverse transcription of  
 tissue mRNA and cDNA amplification were performed under  
 low stringency conditions."  
 BASE COUNT 108 a 125 c 107 g 113 t  
 ORIGIN  
 Query Match 84.3%; Score 326.2; DB 10; Length 453;  
 Best Local Similarity 90.2%; Pred. NO. 4.2e-91;



ECORI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC Library."

BASE COUNT 248 a 289 c 235 g 220 t  
ORIGIN

Query Match 84.3%; Score 326.2; DB 14; Length 992;  
Best Local Similarity 90.2%; Pred. No. 7.1e-91;  
Matches 349; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

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QY 1 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTCTGCTGGTCCACGGTCC 60
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Db 32 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTCTGCTGGTCCACGGTCC 91
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QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCACTCTGTAGGGACAGA 120
   |||||
Db 92 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCACTCTGTAGGGACAGA 151
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QY 121 GTCACATCATTGTCAGGCAAGTCAGGACATTAGGATATTATTTAAATTGGTATCAGCAG 180
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Db 152 GTCACATCATTGTCAGGCAAGTCAGGACATTAGGATATTATTTAAATTGGTATCAGCAG 211
   |||||
QY 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTTGCATCCAGTTTGCBAAGTGGGTC 240
   |||||
Db 212 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTTGCATCCAAATTGCAAGTGGGTC 271
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Db 272 CCATCAAGGTTTCAGGGCAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCGCTG 331
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QY 301 CAGCTGAAGATTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
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Db 332 CAACCTGAAGATTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 391
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QY 361 GCCCAAGGGACCAAGGTGGAAATCAA 387
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Db 392 GCCCAAGGGACCAAGGTGGAAATCAA 418
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RESULT 13  
LOCUS B0706786 964 bp mRNA linear EST 16-JUL-2002  
DEFINITION AGENCOURT\_7976126 NIH\_MGC\_113 Homo sapiens cDNA clone IMAGE:6214887  
5', mRNA sequence.

ACCESSION B0706786  
VERSION B0706786  
KEYWORDS EST.

SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 964)  
AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: [cgabbs@mail.nih.gov](mailto:cgabbs@mail.nih.gov)  
Tissue Procurement: Dr. Mark Watson  
cDNA Library Preparation: Rubin Laboratory  
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
<http://image.llnl.gov>  
Plate: LLCW2382 row: 0 column: 16  
High quality sequence stop: 659.  
Location/Qualifiers  
1..964  
/organism="Homo sapiens"

FEATURES  
source

/db xref="taxon:9606"  
/clone="IMAGE:6214887"  
/clone\_lib="NIH\_MGC\_113"

/lab\_hosts="DH10B (phage-resistant)"  
/notes="Organ: spleen; Vector: pOTB7; Site 1: XhoI; Site 2:  
ECORI; cDNA made by oligo-dT priming. Directionally cloned  
into EcoRI/XhoI sites using the following 5' adaptor:  
GGCACAG(G). Library constructed by Ling Hong in the  
laboratory of Gerald M. Rubin (University of California,  
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and  
Superscript II RT (Life Technologies). Note: this is a  
NIH-MGC Library."

BASE COUNT 239 a 280 c 230 g 212 t 3 others  
ORIGIN

Query Match 84.0%; Score 325.2; DB 14; Length 964;  
Best Local Similarity 90.2%; Pred. No. 1.4e-90;  
Matches 348; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

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QY 1 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTCTGCTGGTCCACGGTCC 60
   |||||
Db 15 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTCTGCTGGTCCACGGTCC 74
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QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCACTCTGTAGGGACAGA 120
   |||||
Db 75 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCACTCTGTAGGGACAGA 134
   |||||
QY 121 GTCACATCATTGTCAGGCAAGTCAGGACATTAGGATATTATTTAAATTGGTATCAGCAG 180
   |||||
Db 135 ATCACCATCATCTTCCGGGCAAGTCAGAACATTTTAAATTGGTATCAGCAG 194
   |||||
QY 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTTGCATCCAGTTTGCBAAGTGGGTC 240
   |||||
Db 195 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTTGCATCCAGTTTGCBAAGTGGGTC 254
   |||||
QY 241 CCATCAAGGTTTCAGGGCAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCGCTG 300
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Db 255 CCATCAAGGTTTCAGGGCAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCGCTG 314
   |||||
QY 301 CAGCTGAAGATTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
   |||||
Db 315 CAACCTGAAGATTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 374
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QY 361 GCCCAAGGGACCAAGGTGGAAATCAA 386
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Db 375 GCCCAAGGGACCAAGGTGGAAATCAA 400
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RESULT 14  
LOCUS AW405752

DEFINITION UI-HF-BLO-abb-a-01-0-UI.rl NIH\_MGC\_37 Homo sapiens cDNA clone  
IMAGE:13057288 5', mRNA sequence.

ACCESSION AW405752

VERSION AW405752.1 GI:6924809

KEYWORDS EST.

SOURCE human.

ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 447)

AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.  
Email: [cgabbs@mail.nih.gov](mailto:cgabbs@mail.nih.gov)  
Eco RI site shown at the beginning of the sequence.

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.

cDNA Library Preparation: M.B. Soares Lab

cDNA Library Arrayed by: M.B. Soares Lab

DNA Sequencing by: M.B. Soares Lab

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:









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FT      331..357
FT      /*tag= f
FT      /note= "encodes CDR 3 region"
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PN      WO9837099-A1.
XX
PD      27-AUG-1998.
XX
PF      17-FEB-1998; 98WO-US02253.
XX
PR      05-FEB-1998; 98US-0803085.
PR      20-FEB-1997; 97US-0803085.
XX
PA      (IDEC-) IDEC PHARM CORP.
PA      (SEK) SEIKAGAKU CORP.
XX
PI      Klotzer WS, Nakamura T, Reff ME;
XX
DR      WPI; 1998-467495/40.
DR      P-PSDB; AA70379.
XX
XX      New anti-human CD23 monoclonal antibody - used for inhibiting IgE
FT      expression to treat or prevent allergic, inflammatory and
FT      auto:immune conditions
XX
PS      Example 1; Pages 106-108; 146pp; English.
XX
CC      The present sequence represents a DNA sequence encoding the light
CC      chain variable region of primate monoclonal antibody anti-human CD23 588.
CC      The invention provides primate monoclonal antibodies which specifically
CC      bind human CD23, the low affinity receptor for IgE (FcεRII/CD23),
CC      and comprise either of a human gamma-1 or human gamma-3 constant region
CC      that binds to human Fc gamma receptors and inhibits IgE expression.
CC      The monoclonal antibodies of the invention are claimed to be useful
CC      for inhibiting induced IgE production for treating or preventing
CC      allergic, inflammatory and autoimmune conditions e.g. allergic rhinitis
CC      conjunctivitis, autoimmune haemolytic anaemia, etc.
XX
SQ      Sequence 387 BP; 92 A; 102 C; 98 G; 95 T; 0 other;

Query Match      100.0%; Score 387; DB 19; Length 387;
Best Local Similarity 100.0%; Pred. No. 1.le-108;
Matches 387; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  ATGGACATCAGGTCCTCCGCTCAGCTCCTGGGGCTCTTCTGCTGGTCCAGGTGCC 60
Db      |||||
QY      1  ATGGACATCAGGTCCTCCGCTCAGCTCCTGGGGCTCTTCTGCTGGTCCAGGTGCC 60
Db      |||||
QY      61  AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGAG 120
Db      |||||
QY      61  AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGAG 120
Db      |||||
QY      121  GTCACCATCACTTGCAGGCGAAGTCAGGACATTAGGTATTATTAATTTGGTATCAGCAG 180
Db      |||||
QY      121  GTCACCATCACTTGCAGGCGAAGTCAGGACATTAGGTATTATTAATTTGGTATCAGCAG 180
Db      |||||
QY      181  AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTGATCCAGTTTGCAGATGGGCTC 240
Db      |||||
QY      181  AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTGATCCAGTTTGCAGATGGGCTC 240
Db      |||||
QY      241  CCATCAAGGTTTCAGGCGGAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGACGCTG 300
Db      |||||
QY      241  CCATCAAGGTTTCAGGCGGAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGACGCTG 300
Db      |||||
QY      301  CAGCCTGAAGATTTTGCAGCTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360
Db      |||||
QY      301  CAGCCTGAAGATTTTGCAGCTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360
Db      |||||
QY      361  GCCCAAGGGACCAAGGTGAAATCAA 387
Db      |||||
QY      361  GCCCAAGGGACCAAGGTGAAATCAA 387
Db      |||||

```

```

RESULT 2
AAV61794
ID      AAV61794 standard; DNA; 19035 BP.
XX
AC      AAV61794;
XX
DT      07-JUN-1999 (first entry)
XX
DE      Traget plasmid Mandy containing anti-CD23 gene.
XX
KW      Mandy; target plasmid; gene integration; gene amplification;
KW      homologous recombination; vector; neomycin phosphotransferase;
KW      neo gene; selectable marker; immunoglobulin; CD23; 588; human; ss.
XX
OS      Chimeric - Mus sp.
OS      Chimeric - Escherichia coli.
OS      Chimeric - Baculovirus.
OS      Chimeric - Cytomegalovirus.
OS      Chimeric - Rhesus macaque polyoma virus.
OS      Chimeric - Photinus sp.
OS      Chimeric - Salmonella typhimurium.
OS      Chimeric - Homo sapiens.
XX
FH      Key
FH      misc_feature      361
FT      /*tag= a
FT      /note= "this base represents a nucleotide missing
FT      from the sequence given in the
FT      specification. It is included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT
FT      misc_feature      721
FT      /*tag= b
FT      /note= "this base represents a nucleotide missing
FT      from the sequence given in the
FT      specification. It is included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT
FT      misc_feature      2941
FT      /*tag= c
FT      /note= "this base represents a nucleotide missing
FT      from the sequence given in the
FT      specification. It is included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT
FT      misc_feature      3301
FT      /*tag= d
FT      /note= "this base represents a nucleotide missing
FT      from the sequence given in the
FT      specification. It is included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT
FT      misc_feature      4261
FT      /*tag= e
FT      /note= "this base represents a nucleotide missing
FT      from the sequence given in the
FT      specification. It is included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT
FT      misc_feature      4621..4622
FT      /*tag= f
FT      /note= "these bases represent nucleotides missing
FT      from the sequence given in the
FT      specification. They are included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT
FT      misc_feature      8161
FT      /*tag= g
FT      /note= "this base represents a nucleotide missing
FT      from the sequence given in the
FT      specification. It is included to
FT      maintain the nucleotide numbering in the
FT      specification for this sequence"
FT

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QY 181 AAACACAGGAAAGCTCTTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAGAGTGGGTC 240
DB 259 AAACACAGGAAAGCCCTTAAGCTCCTGATCTATGTCATCCANTTTGCAGAGTGGGTC 318
QY 241 CCATCAAGGTTTCAGCGGAGTGGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTG 300
DB 319 CCATCAAGGTTTCAGTGGCAGTGGATCTGGGACAGAGTTTCACTCTCACCATCAGCAGCTG 378
QY 301 CAGCCTGAAGATTTTGGGACCTTATTAAGTCTCTACAGGTTTATAGTACCCCTCGGAGCTG 360
DB 379 CAGCCTGAAGATTTTGGCAACTTATTAAGTCTCTACAGGTTTATAGTACCCCTCGGAGCTG 438
QY 361 GGCCCAAGGACCAAGGTGGAAATCAAA 387
DB 439 GGCSRAGGACCAAGGTGGARATCAAA 465

RESULT 6
AAT75423
ID AAT75423 standard; cDNA; 396 BP.
XX
AC AAT75423;
XX
DT 12-SEP-1997 (first entry)
XX
DE Human anti-tumour antigen antibody light chain variable region cDNA.
XX
KW Human; tumour antigen; cancer; monoclonal; antibody; light chain;
KW variable region; medicine; pharmacology; biochemistry; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT sig_peptide 1..66 /*tag= a
FT mat_peptide 67..396 /*tag= b
XX
PN JP09100300-A.
XX
PD 15-APR-1997.
XX
PF 03-OCT-1995; 95JP-0278266.
XX
PR 03-OCT-1995; 95JP-0278266.
XX
PA (HAGI/) HAGIWARA Y.
XX
WPI; 1997-276726/25.
DR P-PSDB; AAW22842.
XX
PT Anticancer human monoclonal antibody variable region sequences - and
PT related DNA and RNA
XX
PS Claim 12; Page 11; 14pp; Japanese.
XX
CC The present sequence encodes a human anti-tumour antigen
CC monoclonal antibody (MAB) light chain variable region, useful in
CC medicine, pharmacology and biochemistry. The isotype of a MAB
CC secreted by the human/human hybridoma HT was determined to be mu
CC and kappa. Human MAB was purified, and the antigen recognised by
CC human MAB CLN-IgM identified by western blotting.
XX
SQ Sequence 396 BP; 101 A; 107 C; 97 G; 91 T; 0 other;
Query Match 86.4%; Score 334.2; DB 18; Length 396;
Best Local Similarity 91.5%; Pred. No. 1.8e-92;
Matches 354; Conservative 0; Mismatches 33; Indels 0; Gaps 0;
QY 1 ATGGACATCAGGTTCCCGCTCAGCTCTGGGGCTCTTCTGCTGCTGCTCCAGGTGCC 60
DB 1 ATGGACATCAGGTTCCCGCTCAGCTCTGGGGCTCTTCTGCTGCTGCTCCAGGTGCC 60
```

```
QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGTCATCTGTAGGGACAGA 120
DB 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGTCATCTGTAGGGACAGA 120
QY 121 GTCACCATCACTTGCAGGGCAAGTCAGGACATTAAGTATTTAAATTTGGTATCAGCAG 180
DB 121 GTCACCATCACTTGCAGGGCAAGTCAGGACATTAAGTATTTAAATTTGGTATCAGCAG 180
QY 181 AAACACAGGAAAGCTCTTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAGAGTGGGTC 240
DB 181 AAACACAGGAAAGCCCTTAAGCTCCTGATCTATGTCATCCANTTTGCAGAGTGGGTC 240
QY 241 CCATCAAGGTTTCAGCGGAGTGGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTG 300
DB 241 CCATCAAGGTTTCAGTGGCAGTGGATCTGGGACAGAGTTTCACTCTCACCATCAGCAGCTG 300
QY 301 CAGCCTGAAGATTTTGGGACCTTATTAAGTCTCTACAGGTTTATAGTACCCCTCGGAGCTG 360
DB 301 CAGCCTGAAGATTTTGGCAACTTACTACTGTCAACAGAGTTACAGTACCCCTCAGCAGCTT 360
QY 361 GGCCCAAGGACCAAGGTGGAAATCAAA 387
DB 361 GGCCCAAGGACCAAGGTGGAAATCAAA 387

RESULT 7
AAH41157
ID AAH41157 standard; DNA; 438 BP.
XX
AC AAH41157;
XX
DT 22-AUG-2001 (first entry)
XX
DE Human coding sequence SEQ ID 11.
XX
KW Human; antiarthritic; cardiant; monoclonal antibody; keloid; arthritis;
KW Tumour Growth Factor-beta II receptor; TGF-beta II receptor; atopy;
KW signal transduction inhibition; tissue fibrosis; atherosclerosis; ds.
XX
OS Homo sapiens.
XX
PN WO200136642-A1.
XX
PD 25-MAY-2001.
XX
PF 17-NOV-2000; 2000WO-JP08129.
XX
PR 18-NOV-1999; 99JP-0328681.
PR 08-NOV-2000; 2000JP-0340216.
XX
PA (NISR ) JAPAN TOBACCO INC.
XX
PI Sakamoto S, Kamada M;
XX
WPI; 2001-343825/36.
DR P-PSDB; AAB99115.
XX
CC Human monoclonal antibodies recognizing human TGF-beta II receptor,
CC useful for treating TGF-beta associated diseases such as tissue
CC fibrosis -
XX
PS Example 12; Page 103-104; 118pp; Japanese.
XX
CC The present invention relates to novel human monoclonal antibodies. The
CC antibodies can bind to human Tumour Growth Factor-beta (TGF-beta) II
CC receptor, resulting in the inhibition of the signal transduction of human
CC TGF-beta into cells. The antibodies can be used for the prevention and
CC treatment of diseases associated with the production of TGF-beta, such as
CC tissue fibrosis in the lung, liver, skin, kidney or other tissues,
CC atherosclerosis, atopy, keloid and arthritis. The present sequence was
CC used in the present invention.
XX
```





DT 03-OCT-2000 (first entry)

XX DNA encoding the kappa chain of immunoglobulin clone 11.2.1.

DE Cytotoxic T-lymphocyte antigen-4; CTLA-4; antibody; immune system;

XX hyperimmunity disorder; autoimmune disease; diabetes; graft rejection;

KW proliferative disorder; cancer; immunodeficient disorder; ss.

XX Homo sapiens.

OS

XX

PH Key Location/Qualifiers

FT CDS 67..714

FT /\*tag= a

XX

PN WO200037504-A2.

XX

XX 29-JUN-2000.

XX

XX 23-DEC-1999; 99WO-US30895.

XX

XX 23-DEC-1998; 98US-0113647.

XX (PFIZ ) PFIZER INC.

PA (ABGE-) ABGENIX INC.

XX

XX Hanson DC, Neveu MJ, Mueller EE, Hanke JH, Gilman SC, Davis CG;

PI Corvalan JR;

PI

XX WPI; 2000-442647/38.

DR P-PSDB; AAY93735.

XX

XX Novel antibodies capable of binding cytotoxic T-lymphocyte antigen

PT (CTLA)-4 containing specified heavy and light chain sequences, useful

PT for treating, e.g. immune disorders

XX

XX Example 2; Fig 22r; 157pp; English.

PS

XX The present sequence encodes a kappa chain of an antibody of the

CC invention. The antibody is directed cytotoxic T-lymphocyte antigen

CC (CTLA)-4. Antibodies of the invention are composed of a heavy chain

CC variable region, comprising a modified contiguous sequence from a

CC FRI-FR3 sequence encoded by a human VH3-33 family gene. The

CC modifications are contained in CDR1, CDR2 and/or framework regions.

CC The antibodies may be used to inhibit CTLA-4 and down-regulate the

CC immune system to treat hyperimmunity disorders (e.g. autoimmune

CC disease, diabetes and graft rejection) and proliferative disorders

CC (e.g. cancer). CTLA-4 stimulatory agents may be used to up-regulate

CC immune system to up-regulate immunodeficient disorders.

XX

SQ Sequence 714 BP; 188 A; 199 C; 173 G; 154 T; 0 other;

Query Match 84.3%; Score 326.2; DB 21; Length 714;

Best Local Similarity 90.2%; Pred. No. 6.3e-90;

Matches 349; Conservative 0; Mismatches 38; Indels 0; Gaps 0;

QY 1 ATGGACATGAGGGTCCCCGCTCAGCTCTCTGGGGCTCTTCTCTGCTCGGTCCAGGTGCC 60

DB 1 ATGGACATGAGGGTCCCCGCTCAGCTCTCTGGGGCTCTTCTCTGCTCGGTCCAGGTGCC 60

QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCAATCTGTAGGGGACAGA 120

DB 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCAATCTGTAGGGGACAGA 120

QY 121 GTCCACATCAGTTGAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAG 180

DB 121 GTCCACATCAGTTGAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAG 180

QY 181 AAACACGAGAAAGCTCTTAAGCTCTCTGATCTATGTTGATCCAGTTTTCGAAAGTGGGTC 240

DB 181 AAACACGAGAAAGCTCTTAAGCTCTCTGATCTATGTTGATCCAGTTTTCGAAAGTGGGTC 240

QY 241 TCATCAAGGTTGAGGGCAAGTGGATCTGGGACAGAGTTTCATCTCACCCTGACGACCTG 300

DB 241 CCATCAAGGTTCACTGGCAGTGGATCTGGGACAGATTCTCACTCTCACCATCAGCAGTCTG 300

QY 301 CAGCTCAAGATTTTTCGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360

DB 301 CAACCTGAAGATTTTTCGAACTTACTGTCTCAACAGATTATCAGTACTCTCACTTTC 360

QY 361 GGCCCAAGGGACCAAGGTGGAAATCAAA 387

DB 361 GGCCCTGGGACCAAGGTGGAAATCAAA 387

RESULT 10

AAZ39327

ID AAZ39327 standard; DNA; 387 BP.

XX

AC AAZ39327;

XX

DT 15-FEB-2000 (first entry)

XX

DE Nucleotide sequence of chimpanzee V kappa cDNA clone 46-14.

XX

KW Complementarity determining region; antibody; primate; immunogenicity;

KW Old World ape; Old World monkey; antigen-binding affinity; ss.

XX

OS Pan troglodytes.

XX

PN WO9955369-A1.

XX

PD 04-NOV-1999.

XX

XX 28-APR-1999; 99WO-US09131.

PF

XX 28-APR-1998; 98US-0083367.

PR

XX (SMIK ) SMITHKLINE BEECHAM CORP.

PA

XX Taylor AH;

PI

XX WPI; 2000-023265/02.

DR

DR P-PSDB; AAY56659, AAY56724.

XX

PT Antibodies containing donor complementarity determining regions and

PT non-human primate acceptor frameworks, having reduced immunogenicity in

XX humans -

PS Example 2; Page 67-68; 123pp; English.

XX

CC The invention provides an antibody (Ab) comprising donor CDRs

CC (complementarity determining regions) derived from a non-human antigen-

CC specific donor antibody, and an acceptor framework from a non-human

CC primate. The Abs are prepared by grafting CDRs from a non-human antigen-

CC specific donor antibody onto homologous Old World ape or monkey acceptor

CC frameworks. The Abs have reduced immunogenicity and are better tolerated

CC in humans (because of the close similarity between the human and primate

CC proteins), but retain the full antigen-binding affinity of the donor

CC antibody.

XX

SQ Sequence 387 BP; 94 A; 104 C; 95 G; 94 T; 0 other;

Query Match 83.9%; Score 324.6; DB 21; Length 387;

Best Local Similarity 89.9%; Pred. No. 1.5e-89;

Matches 348; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

QY 1 ATGGACATGAGGGTCCCCGCTCAGCTCTCTGGGGCTCTTCTGCTCTGGTCCCAAGGTGCC 60

DB 1 ATGGACATGAGGGTCCCCGCTCAGCTCTCTGGGGCTCTTCTGCTCTGGTCTCAGGTACC 60

QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCAATCTGTAGGGGACAGA 120

DB 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCAATCTGTAGGGGACAGA 120

QY 121 GTCCACATCAGTTGAGGGCAAGTCAGGACATTAGGTATTATTTAAATTTGGTATCAGCAG 180



CC of multiple isotypes by undergoing isotype switching. These animals  
CC produce a first Ig type that is necessary for antigen-stimulated B-cell  
CC maturation and can switch to encode and produce one or more subsequent  
CC heterologous isotypes.

XX SQ Sequence 388 BP; 89 A; 107 C; 97 G; 95 T; 0 other;

Query Match 82.2%; Score 318.2; DB 18; Length 388;  
Best Local Similarity 88.9%; Pred. No. 1.4e-87;  
Matches 344; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

Qy 1 ATGGACATGAGGTTCCCGCTCAGCTCTGGGGCTCTTCTCTGGTCCCGAGGTGCC 60  
Db 1 ATGGACATGAGTGTCCCGCTCAGCTCTGGGGCTCTTCTCTGGTCCCGAGGTGCC 60

Qy 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTCCCTGTCTGCACTGTAGGGACAGA 120  
Db 61 AGATGCGACATCCAGATGACCCAGTCTCCATCTCCCTGTCTGCACTGTAGGGACAGA 120

Qy 121 GTCCACATCACTTGGCAGGCAAGTCAGGACATTAGTATTATTTAAATTGGTATCAGCAG 180  
Db 121 GTCCACATCACTTGGCAGGCAAGTCAGGACATTAGTATTATTTAAATTGGTATCAGCAG 180

Qy 181 AAACAGGAAAGCTCTTAAGCTCCTGATCTATGTTGATCCAGTGTGCAAGTGGGTC 240  
Db 181 AAACAGGAAAGCTCTTAAGCTCCTGATCTATGTTGATCCAGTGTGCAAGTGGGTC 240

Qy 241 CCATCAAGTTTACGGGAGTGGATCTGGGACAGATTCACTCTCACCGTCAGACGCTG 300  
Db 241 CCATCAAGTTTACGGGAGTGGATCTGGGACAGATTCACTCTCACCGTCAGACGCTG 300

Qy 301 CAGCCTGAAGATTTTGGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360  
Db 301 CAGCCTGAAGATTTTGGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360

Qy 361 GCCCAAGGACCAAGGTGGAAATCAAA 387  
Db 361 GCCCAAGGACCAAGGTGGAGATCAAA 387

RESULT 13  
AAV39239  
ID AAV39239 standard; DNA; 388 BP.  
AC AAV39239;  
XX 18-DEC-1998 (first entry)  
XX Functional Kappa transcript isolated from transgenic cell line 10C5.

KW Transgenic animal; human heterologous antibody; transgene;  
KW isotype switching; neutrophil efflux; reperfusion injury; CD4 binding;  
KW autoimmune reaction; inflammatory response; transplant rejection;  
KW acid induced lung injury; acute adult respiratory distress syndrome;  
KW ARDS; vasculitis; septic shock; allergic reaction; asthma;  
KW cystic fibrosis; ss.

OS Synthetic.  
OS Homo sapiens.  
OS Mus sp.

XX W09824884-A1.  
XX 11-JUN-1998.  
XX 01-DEC-1997; 97MO-US21803.  
XX 02-DEC-1996; 96US-0758417.  
XX (GENP-) GENPHARM INT.  
XX Kay RM, Lönberg N;  
XX

DR WPI; 1998-333306/29.  
XX Hybridoma producing antibody specific for interleukin-8 - used to  
PT prevent efflux of neutrophils from vasculature, and treat  
XX reperfusion injury

PS Example 41; Page 304; 452pp; English.

XX AAV39232-41 represent functional transcripts of a human IgKappa  
CC anti-CD4 antibody. The sequences are isolated from 5 different  
CC transgenic mouse hybridoma cell lines. The specification describes  
CC transgenic non-human animals, especially a mouse, which are capable of  
CC producing a human heterologous antibodies of multiple isotypes by  
CC undergoing isotype switching. The transgenic animals have human heavy and  
CC light chain transgenes. The transgenes are capable of functionally  
CC rearranging a heterologous diversity (D) gene in a  
CC variable-diversity-junction (V-D-J) recombination. The transgenes include  
CC a heavy chain transgene comprising at least one V, D and J gene segment,  
CC and one constant region gene segment. The immunoglobulin (Ig) light chain  
CC transgene comprises at least one V and J gene segment and one constant  
CC region gene segment. The gene segments are heterologous to the transgenic  
CC vasculature. It can also be used to prevent efflux of neutrophils from  
CC vasculature. It can also be used to treat reperfusion injury. CD4 binding  
CC antibodies are used to reduce undesirable autoimmune reactions. The  
CC inflammatory responses and rejection of transplanted organs. The  
CC anti-IL-8 antibodies can reduce tissue damage and prolong survival in  
CC animal models of acute adult respiratory distress syndrome (ARDS) and  
CC acid induced lung injury. The anti-IL-8 antibodies can also be used for  
CC the treatment of vasculitis, septic shock, allergic reactions (e.g.  
CC asthma) and cystic fibrosis.

XX SQ Sequence 388 BP; 89 A; 107 C; 97 G; 95 T; 0 other;

Query Match 82.2%; Score 318.2; DB 19; Length 388;  
Best Local Similarity 88.9%; Pred. No. 1.4e-87;  
Matches 344; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

Qy 1 ATGGACATGAGGTTCCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGTCCCGAGGTGCC 60  
Db 1 ATGGACATGAGTGTCCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGTCCCGAGGTGCC 60

Qy 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCACTGTAGGGACAGA 120  
Db 61 AGATGCGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCACTGTAGGGACAGA 120

Qy 121 GTCCACATCACTTGGCAGGCAAGTCAGGACATTAGTATTATTTAAATTGGTATCAGCAG 180  
Db 121 GTCCACATCACTTGGCAGGCAAGTCAGGACATTAGTATTATTTAAATTGGTATCAGCAG 180

Qy 181 AAACAGGAAAGCTCTTAAGCTCCTGATCTATGTTGATCCAGTGTGCAAGTGGGTC 240  
Db 181 AAACAGGAAAGCTCTTAAGCTCCTGATCTATGTTGATCCAGTGTGCAAGTGGGTC 240

Qy 241 CCATCAAGTTTACGGGAGTGGATCTGGGACAGATTCACTCTCACCGTCAGACGCTG 300  
Db 241 CCATCAAGTTTACGGGAGTGGATCTGGGACAGATTCACTCTCACCGTCAGACGCTG 300

Qy 301 CAGCCTGAAGATTTTGGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360  
Db 301 CAGCCTGAAGATTTTGGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTT 360

Qy 361 GCCCAAGGACCAAGGTGGAAATCAAA 387  
Db 361 GCCCAAGGACCAAGGTGGAGATCAAA 387

RESULT 14  
AAZ21993  
ID AAZ21993 standard; DNA; 388 BP.  
XX AAZ21993;  
AC AAZ21993;  
XX 24-NOV-1999 (first entry)  
DT



```
SQ Sequence 936 BP; 239 A; 276 C; 214 G; 207 T; 0 other;
Query Match      82.2%; Score 318; DB 21; Length 936;
Best Local Similarity 90.3%; Pred. No. 2.3e-87;
Matches 352; Conservative 0; Mismatches 35; Indels 3; Gaps 1;
QY 1 ATGGACATGAGGGTCCCGCTCAGCTCCTGGGGCTCCTTCTGCTCTGGCTCCAGGTGCC 60
Db 19 ATGGACATGAGGGTCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCAGGTGCC 78
QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGCACTCTGTAGGGACAGA 120
Db 79 AGATGTGACATCCAGATGACCCAGTCTCCATCTCCTCTGTCATCTGTAGGACACAGA 138
QY 121 GTCACCATCACCTTGCAGGGCAAGTCAGGACATTAGGTATTATTAAATTGGTATCAGCAG 180
Db 139 GTCACCATCACCTTGCAGGGCAAGTCAGGACATTAGGACGCTATTAAATTGGTATCAGCAG 198
QY 181 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAGTGGGTC 240
Db 199 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGCTGCTATGCTGCACTCAGTTTGCAGTGGGTC 258
QY 241 CCATCAAGGTTTCAGGGCAGTGGATCTGGGACAGAGTTCACTCTCACCGTCAGCAGCCTG 300
Db 259 CCATCAAGGTTTCAGTGGCAGTGGATCTGGGACAGAGTTTCACTCTCACCATCAGCAGTCTG 318
QY 301 CAGCCTGAAGATTTTGGGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGG--ACG 357
Db 319 CAACCTGAAGATTTTGGAACTTACTGTCTCAACAGAGTTACAGTACCCCTCCGATCACC 378
QY 358 TTCGGCCCAAGGGACCAAGGTGGAAATCAA 387
Db 379 TTCGGCCCAAGGGACACGACTGGAGATTAAA 408
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MATH 101  
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MATH 103

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- 15. [/pubmed/25112130](http://pubmed.ncbi.nlm.nih.gov/pubmed/25112130) PUBCOMB.seq.\*

index 3.0 is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Author  
Title  
Subject

	Sequence 1	Sequence 2	Sequence 3	Application
1	0.07	0.06	0.07	Sequence 3, Appl.
2	0.08	0.09	0.08	Sequence 3, Appl.

	Sequence 29, App.
	Sequence 123, App.
	Sequence 27, App.
	Sequence 18, App.
	Sequence 27, App.

[illegible]

Sequence 186, App  
Sequence 13, App  
Sequence 13, App  
Sequence 13, App  
Sequence 11, App

Sequence	11, Apr	Sequence 11, Apr
Sequence 55, Apr	44.4	44.4
Sequence 20, Apr	44.4	44.4

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RESULT 2  
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Sequence 3, Application US/09019441  
Publication No. US20030086921A1  
GENERAL INFORMATION:  
APPLICANT: REFF, Mitchell E.  
KLOETZER, William S.  
NAKAMURA, Takehiko  
TITLE OF INVENTION: GAMMA-1 ANTI-HUMAN CD23 MONOCLONAL  
ANTIBODIES AND USE THEREOF AS THERAPEUTICS  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS: 35  
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP  
STREET: P.O. Box 1404  
City: Alexandria  
STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/019,441  
FILING DATE: 05-Feb-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/803,085

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; FILING DATE: 20-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-502
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 387 base pairs
; TYPE: nucleic acid
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; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-019-441-3
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Best Local Similarity 100.0%; Pred No. 2.4e-114;
Matches 387; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Publication No. US20030103976A1
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; APPLICANT: Serizawa, No. US20030103976A1ufusa
; APPLICANT: Haruyama, Hideyuki
; APPLICANT: Nakahara, Kaori
; APPLICANT: Tamaki, Ikuko
; APPLICANT: Takahashi, Tohru
; TITLE OF INVENTION: Anti-Fas Antibodies
; FILE REFERENCE: 980126CIP/HG
; CURRENT APPLICATION NUMBER: US/10/216,484
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US/09/499,662
; PRIOR FILING DATE: 2000-02-09

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RESULT 11  
US-10-066-543-186/c  
; Sequence 186, Application US/10066543  
; Publication No. US20030087818A1  
; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Pyle, Ruth A.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Indrias, Carol Yoseph  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Carter, Darick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Smith, Carole L.  
; APPLICANT: Durham, Margarita  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.563  
; CURRENT APPLICATION NUMBER: US/10/066,543  
; CURRENT FILING DATE: 2002-01-31  
; NUMBER OF SEQ ID NOS: 3417  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 186  
; LENGTH: 537  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc\_feature  
; LOCATION: 529  
; OTHER INFORMATION: n = A,T,C or G  
US-10-066-543-186

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Qy 61 AGATGTGACATCCAGATGACCAGTCTCCATCTTCCCTGTGTCATCTGTAGGGACAGA 120  
Db 443 AGATGTGACATCCAGATGACCAGTCTCCATCTTCCCTGTGTCATCTGTAGGACAGA 384  
Qy 121 GTCACATCATTGTCAGGCGAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 180  
Db 383 GTACCATCATTGTCGGGCGAGTCAGGGCAATTAGCAATTTATTAGCCTGGTATCAGCAG 324  
Qy 181 AAACCAAGGAAGCTCCTTAAGCTCTGATCTATGTGATCCAGTTTGCAGAGTGGGTC 240  
Db 323 AAACCAAGGAAGTTCCTTAAGCTCCTGATCTATGTGTCATCCACTTTTGAATCTGGGTC 264  
Qy 241 CCATCAAGGTTCCAGCGGACGTGGATCTGGGACAGAGTTCACCTCTCACCGTCAGCAGCCTG 300  
Db 263 CCATCTCGGTTGAGTGGGAGTGGATCTGGGACACATTTTCACTCTCACCATCGGACGCTG 204  
Qy 301 CAGCCTGAAGATTTTTCGAGCTTATTACTGCTTACAGGTTTATAGTACCCCTCGGACGTTTC 360

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RESULT 12  
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; Sequence 13, Application US/10040244  
; Publication No. US20030059427A1  
; GENERAL INFORMATION:  
; APPLICANT: KIRIN BEER KABUSHIKI KAISHA  
; APPLICANT: FORCE, WALKER F.  
; APPLICANT: TAKAHASHI, NOBUAKI  
; APPLICANT: MIKAYAMA, TOSHIYUMI  
; TITLE OF INVENTION: ISOLATION AND CHARACTERIZATION OF HIGHLY ACTIVE ANTI-CD40 ANTIBOD  
; FILE REFERENCE: 021286/0272501  
; CURRENT APPLICATION NUMBER: US/10/040,244  
; CURRENT FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: 60/200,601  
; PRIOR FILING DATE: 2000-4-28  
; PRIOR APPLICATION NUMBER: PCT/US01/13672  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: 09/844,684  
; PRIOR FILING DATE: 2001-04-27  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: PatentIn ver. 3.0  
; SEQ ID NO 13  
; LENGTH: 716  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-040-244-13

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Db 107 AGATGTGACATCCAGATGACCAGTCTCCATCTTCCGTTGTCATCTGTAGGACAGA 166  
Qy 121 GTCACATCATTGTCAGGCGAAGTCCAGACATTAGGTATTTAAATTTGGTATCAGCAG 180  
Db 167 GTCACCATCACTTGTGCGGGGAGTCAGGGTATTAGCAGCTGGTTAGCCTGTATCAACAG 226  
Qy 181 AAACCAAGGAAGCTCCTTAAGCTCTGATCTATGTGTCATCCAGTTTGCAGAGTGGGTC 240  
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Db 287 CCATCAAGGTTCCAGCGGACGTGGATTTGGGACAGATTTCACCTCTCACCATCGGACGCTG 346  
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RESULT 13  
US-09-844-684-13  
; Sequence 13, Application US/09844684  
; Patent No. US20020142358A1  
; GENERAL INFORMATION:

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1  APPLICANT: GEMINI SCIENCE, INC.
2  APPLICANT: LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY
3  TITLE OF INVENTION: HUMAN ANTI-CD40 ANTIBODIES AND METHODS OF MAKING SAME
4  FILE REFERENCE: US/09/292-053
5  CURRENT APPLICATION NUMBER: US/09/292-053
6  PRIOR FILING DATE: 2001-04-27
7  PRIOR FILING DATE: 2001-04-27
8  PRIOR FILING DATE: 2001-04-27
9  NUMBER OF SEQ ID NOS: 15
10  SOFTWARE: Patent In Ver. 2.1
11  SEQ ID NO: 1
12  LENGTH: 716
13  TYPE: DNA
14  ORGANISM: Homo sapiens
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Db 209 AAACGAGGAAAGCCCTAAGCTCCTGCTCTATAGGCATCTGGTTAGAAAGTGGGTC 268
Qy 241 CCATCAAGGTTGAGGGCAGTGGATCTGGGACAGAGTTCACTCTACCGTCAGCAGCCTG 300
Db 269 CCATCAAGGTTGAGGGCAGTGGATCTGGGACAGAAATTCACCTCACCATCAACAGCCTG 328
Qy 301 CAGCCTGAAGATTTGCGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
Db 329 CAGCCTGATGATTTTGCAACTTATTACTGCCAACAGTCTAATAGTTATTCGTGGACGTTTC 388
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Pred. No. is the number of results per facility. Rank 1 has a score greater than or equal to the score of the results below it, and is derived by analysis of the total score distribution.

SUMMARIES

Facility	No.	Score	%	Query	Match	Length	DB	Result
1	387	100.0	387	14	US	09-019	441	Sequence 4, Aff
2	387	100.0	387	16	US	09-292	384	Sequence 4, Aff
3	387	100.0	387	40	US	11-163	68	Sequence 4, Aff
4	342.2	88.4	729	18	US	09-408	44	Sequence 13, Aff
5	342.2	88.4	729	18	US	09-499	64	Sequence 13, Aff
6	342.2	88.4	729	42	US	10-216	484	Sequence 13, Aff
7	339	87.6	1106	4	PT	US01-11	41	Sequence 13, Aff
8	339	87.6	1106	4	US	10-264	74	Sequence 4, Aff
9	335.2	86.6	812	30	US	09-760	478	Sequence 4, Aff
10	335.2	86.6	812	42	US	10-256	358	Sequence 4, Aff
11	331.8	85.7	500	32	US	09-814	44	Sequence 4, Aff
12	331.8	85.7	500	63	US	09-197	404	Sequence 4, Aff
13	329.4	85.1	974	32	US	09-856	44	Sequence 13, Aff
14	327.8	84.7	974	30	US	09-763	478	Sequence 13, Aff
15	327.8	84.7	974	42	US	10-206	404	Sequence 13, Aff
16	327	84.5	391	16	US	09-289	368	Sequence 13, Aff
17	327	84.5	391	35	US	09-939	432	Sequence 13, Aff
18	326.2	84.3	549	26	US	09-665	482	Sequence 13, Aff
19	326.2	84.3	549	60	US	09-168	532	Sequence 13, Aff
20	326.2	84.3	714	18	US	09-472	462	Sequence 13, Aff
21	326.2	84.3	714	41	US	10-153	382	Sequence 13, Aff

22	324.6	83.9	387	1	PCT-US99-091311-27	Sequence 27, Appl
23	324.6	83.9	387	17	US-09-300-970A-27	Sequence 27, Appl
24	324.6	83.9	387	34	US-09-305-243-27	Sequence 27, Appl
25	323	83.5	728	33	US-09-305-243-27	Sequence 15, Appl
26	323	83.5	728	38	US-09-844-684-15	Sequence 15, Appl
27	322.8	83.4	408	17	US-09-362-510-22815	Sequence 22815, A
28	322.8	83.4	408	17	US-09-362-510-22815	Sequence 22815, A
29	322.8	83.4	408	34	US-09-304-013-22815	Sequence 22815, A
30	321.8	83.2	474	32	US-09-834-366-31	Sequence 31, Appl
31	321.8	83.2	474	63	US-60-197-873-31	Sequence 31, Appl
32	321.6	83.1	402	19	US-09-528-409-22604	Sequence 22604, A
33	321.6	83.1	402	35	US-09-933-524-22604	Sequence 22604, A
34	321.6	83.1	402	35	US-09-933-524-22604	Sequence 22604, A
35	321.4	83.0	390	1	PCT-US99-091311-57	Sequence 57, Appl
36	321.4	83.0	390	17	US-09-300-970A-57	Sequence 57, Appl
37	321.4	83.0	390	34	US-09-305-243-57	Sequence 57, Appl
38	321.4	83.0	514	1	PCT-US02-03870-2035	Sequence 2025, Ap
39	321.4	83.0	514	39	US-10-066-543-2025	Sequence 2025, Ap
40	321.4	83.0	514	42	US-10-214-403-2025	Sequence 2025, Ap
41	321.4	83.0	537	1	PCT-US02-03870-186	Sequence 186, App
42	321.4	83.0	537	39	US-10-066-543-186	Sequence 186, App
43	321.4	83.0	537	42	US-10-214-403-186	Sequence 186, App
44	321.4	83.0	716	32	US-09-844-684-13	Sequence 13, Appl
45	321.4	83.0	716	38	US-10-040-244-13	Sequence 13, Appl

## ALIGNMENTS

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RESULT 1
US-09-019-441-3
; Sequence 3, Application US/09019441
; GENERAL INFORMATION:
; APPLICANT: REFF, Mitchell E.
;            KLOETZER, William S.
;            NAKAMURA, Takehiko
; TITLE OF INVENTION: GAMMA-1 ANTI-HUMAN CD23 MONOCLONAL
;                   ANTIBODIES AND USE THEREOF AS THERAPEUTICS
;
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/019,441
; FILING DATE: 05-Feb-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/803,085
; FILING DATE: 20-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-502
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-3021
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 387 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:

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[illegible]





Db 67 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTCTCTGTCATCTGTAGGACAGAGA 126  
Qy 121 GTCACCATCAGTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 180  
Db 127 GTCACCATCAGTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 186  
Qy 181 AAACAGGAGAAAGCTCTTAAGCTCCTGATCTATGTTGGCATCCAGTTTGCAGAGTGGGTC 240  
Db 187 AAACAGGAGAAAGCTCTTAAGCTCCTGATCTATGTTGGCATCCAGTTTGCAGAGTGGGTC 246  
Qy 241 CCATCAAGGTTTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 300  
Db 247 CCATCAAGGTTTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 306  
Qy 301 CAGCCTGAAGATTTTCGCGAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 360  
Db 307 CAACCTGAAGATTTTCGCGAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 366  
Qy 361 GGCCAGGAGCAAGGTTGGAATCAAA 387  
Db 367 GGCCAGGAGCAAGGTTGGAATCAAA 393

RESULT 5  
US-09-499-662-125  
; Sequence 125, Application US/09499662  
; GENERAL INFORMATION:  
; APPLICANT: Serizawa, Nobufusa  
; APPLICANT: Haruyama, Hideyuki  
; APPLICANT: Nakahara, Kaori  
; APPLICANT: Tamaki, Ikuko  
; APPLICANT: Takahashi, Tohru  
; TITLE OF INVENTION: Anti-Fas Antibodies  
; FILE REFERENCE: 980126CIP/HG  
; CURRENT APPLICATION NUMBER: US/09/499,662  
; EARLIER FILING DATE: 2000-02-09  
; EARLIER FILING DATE: 1998-04-01  
; NUMBER OF SEQ ID NOS: 165  
; SEQ ID NO 125  
; LENGTH: 729  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-499-662-125

Query Match 88.4%; Score 342.2; DB 18; Length 729;  
Best Local Similarity 92.8%; Pred. No. 6e-95;  
Matches 359; Conservative 0; Mismatches 28; Indels 0; Gaps 0;  
Qy 1 ATGGACATGAGGTCCTCCGCTCAGCTCCTGCGGCTCTCTGCTCTGCTCCAGGTGC 60  
Db 7 ATGGACATGAGGTCCTCCGCTCAGCTCCTGCGGCTCTCTGCTCTGCTCCAGGTGC 66  
Qy 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTGCTGTCATCTGAGGACAGAGA 120  
Db 67 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTGCTGTCATCTGAGGACAGAGA 126  
Qy 121 GTCACCATCAGTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 180  
Db 127 GTCACCATCAGTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 186  
Qy 181 AAACAGGAGAAAGCTCTTAAGCTCCTGATCTATGTTGGCATCCAGTTTGCAGAGTGGGTC 240  
Db 187 AAACAGGAGAAAGCTCTTAAGCTCCTGATCTATGTTGGCATCCAGTTTGCAGAGTGGGTC 246  
Qy 241 CCATCAAGGTTTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 300  
Db 247 CCATCAAGGTTTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 306  
Qy 301 CAGCCTGAAGATTTTCGCGAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 360  
Db 307 CAACCTGAAGATTTTCGCGAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 366

Qy 361 GGCCAGGAGCAAGGTTGGAATCAAA 387  
Db 367 GGCCAGGAGCAAGGTTGGAATCAAA 393  
RESULT 6  
US-10-216-484-125  
; Sequence 125, Application US/10216484  
; GENERAL INFORMATION:  
; APPLICANT: Serizawa, Nobufusa  
; APPLICANT: Haruyama, Hideyuki  
; APPLICANT: Nakahara, Kaori  
; APPLICANT: Tamaki, Ikuko  
; APPLICANT: Takahashi, Tohru  
; TITLE OF INVENTION: Anti-Fas Antibodies  
; FILE REFERENCE: 980126CIP/HG  
; CURRENT APPLICATION NUMBER: US/10/216,484  
; CURRENT FILING DATE: 2002-08-09  
; PRIOR APPLICATION NUMBER: US/09/499,662  
; PRIOR FILING DATE: 2000-02-09  
; PRIOR APPLICATION NUMBER: US/09/053,583  
; PRIOR FILING DATE: 1998-04-01  
; NUMBER OF SEQ ID NOS: 165  
; SEQ ID NO 125  
; LENGTH: 729  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-216-484-125

Query Match 88.4%; Score 342.2; DB 42; Length 729;  
Best Local Similarity 92.8%; Pred. No. 6e-95;  
Matches 359; Conservative 0; Mismatches 28; Indels 0; Gaps 0;  
Qy 1 ATGGACATGAGGTCCTCCGCTCAGCTCCTGCGGCTCTCTGCTCTGCTCCAGGTGC 60  
Db 7 ATGGACATGAGGTCCTCCGCTCAGCTCCTGCGGCTCTCTGCTCTGCTCCAGGTGC 66  
Qy 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTGCTGTCATCTGAGGACAGAGA 120  
Db 67 AGATGTGACATCCAGATGACCCAGTCTCCATCTCTGCTGTCATCTGAGGACAGAGA 126  
Qy 121 GTCACCATCAGTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 180  
Db 127 GTCACCATCAGTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 186  
Qy 181 AAACAGGAGAAAGCTCTTAAGCTCCTGATCTATGTTGGCATCCAGTTTGCAGAGTGGGTC 240  
Db 187 AAACAGGAGAAAGCTCTTAAGCTCCTGATCTATGTTGGCATCCAGTTTGCAGAGTGGGTC 246  
Qy 241 CCATCAAGGTTTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 300  
Db 247 CCATCAAGGTTTTCAGGCGCAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 306  
Qy 301 CAGCCTGAAGATTTTCGCGAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 360  
Db 307 CAACCTGAAGATTTTCGCGAGTTCAGGACATAGGTATTTAAATTTGGTATCAGCAG 366  
Qy 361 GGCCAGGAGCAAGGTTGGAATCAAA 387  
Db 367 GGCCAGGAGCAAGGTTGGAATCAAA 393  
RESULT 7  
PCT-US01-18569-121  
; Sequence 121, Application PC/TUS0118569  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: P133PCT  
; CURRENT APPLICATION NUMBER: PCT/US01/18569  
; CURRENT FILING DATE: 2001-06-07  
; PRIOR APPLICATION NUMBER: 60/209,467



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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (201)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (792)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-760-479-405

      86.6%; Score 335.2; DB 30; Length 812;
Best Local Similarity 90.2%; Pred. No. 9.3e-93;
Matches 349; Conservative 7; Mismatches 31; Indels 0; Gaps 0;

QY 1 ATGGACATGAGGTCCCGCTCAGCTCCTGGGGCTCCTTCTGCTGGCTCCAGGTGCC 60
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Db 41 ATGGACATGAGGTCCCGCTCAGCTCCTGGGGCTCCTTCTGCTGGCTCCAGGTGCC 100
   |||||

QY 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTCTCTGCACTCTGTAGGGACAGA 120
   |||||
Db 101 AGATGTGACATGAGATGACCCAGTCTCCATCTTCCCTCTCTGCACTCTGTAGGGACAGA 160
   |||||

QY 121 GTCACCATCTTGCAGGCAAGTACGACATTAGGTATTATTTAAATTTGGTATCAGCAG 180
   |||||
Db 161 GTCACCATCTTGCAGGCAAGTACGACATTAGGTATTATTTAAATTTGGTATCAGCAG 220
   |||||

QY 181 AAACAGGAAAGCTCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAAGTGGGTC 240
   |||||
Db 221 AAACAGGAAAGCTCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAAGTGGGTC 280
   |||||

QY 241 CCATCAAGTTTCAGCGGCAAGTGTGATCTGGGACAGAGTTCACCTCAACCTCAGCAGCCTG 300
   |||||
Db 281 CCATCAAGTTTCAGCGGCAAGTGTGATCTGGGACAGAGTTCACCTCAACCTCAGCAGCCTG 340
   |||||

QY 301 CAGCCTGAAGATTTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
   |||||
Db 341 CAGCCTGAAGATTTTTCGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 400
   |||||

QY 361 GGCACAGGACCAAGGTGAATCAAA 387
Db 401 GGCACAGGACCAAGGTGAATCAAA 427

RESULT 10
US-10-206-008-405
; Sequence 405, Application US/10206008
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ53CIN
; CURRENT APPLICATION NUMBER: US/10/206,008
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 09/760,479
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/225,757
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/226,868
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/216,647
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: 60/225,267
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/216,880
; PRIOR FILING DATE: 2000-07-07
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; PRIOR APPLICATION NUMBER: 60/228,924
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/224,518
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/236,369
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/224,519
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,964
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/241,809
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/249,299
; PRIOR FILING DATE: 2000-11-17
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; PRIOR FILING DATE: 2000-11-01
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; PRIOR APPLICATION NUMBER: 60/236,368
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/251,856
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/251,868
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/229,344
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/234,997
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; PRIOR APPLICATION NUMBER: 60/229,345
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/229,287
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/229,513
; PRIOR FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: 60/231,413
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: 60/229,509
; PRIOR FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: 60/236,367
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/237,039
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/237,038
; PRIOR FILING DATE: 2000-10-02
; PRIOR APPLICATION NUMBER: 60/236,370
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 60/236,802
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; CURRENT FILING DATE: 2001-04-13  
; PRIOR APPLICATION NUMBER: US 60/197,873  
; PRIOR FILING DATE: 2000-04-18  
; NUMBER OF SEQ ID NOS: 52153  
; SOFTWARE: Patent.pm  
; SEQ ID NO 44  
; LENGTH: 500  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 28..498  
; NAME/KEY: sig\_peptide  
; LOCATION: 28..93  
; OTHER INFORMATION: Von Heijne matrix  
; OTHER INFORMATION: score 13.6000003814697  
; OTHER INFORMATION: seq LGLLLMLRGARC/DI  
US-09-834-366-44

Query Match 85.7%; Score 331.8; DB 32; Length 500;  
Best Local Similarity 86.0%; Pred. No. 8.8e-92;  
Matches 333; Conservative 26; Mismatches 28; Indels 0; Gaps 0;  
QY 1 ATGGACATGAGGTCCCCGCTCAGCTCCTGGGGCTCCTTCTGCTCTGGCTCCAGGTGCC 60  
Db 28 ATGGACATGAGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCAGGTGCC 87  
QY 61 AGATGTGACATCCAGATGACCCAGTCCATCTCCCTGCTGTCATCTGTAGGGACAGA 120  
Db 88 AGATGTGACATCCAGATGACCCAGTCCATCTCCCTGCTGTCATCTGTAGGGACAGA 147  
QY 121 GTCACCATCACTTGCAGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGAG 180  
Db 148 GTCACCATCACTTGCAGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGAG 207  
QY 181 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTCATCCAGTTTGCAAGTGGGTC 240  
Db 208 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTCATCCARTTTGCAAGTGGGTC 267  
QY 241 CCATCAAGTTTCAGGGAGTGATCTGGGACAGATTACCTCACCCTCAGCAGCTG 300  
Db 268 CCATCAAGTTTCAGGGAGTGATCTGGGACAGATTACCTCACCCTCAGCAGCTG 327  
QY 301 CAGCTGAAGATTTGGGACTTATCTGCTACAGTTTATAGTACCCCTCGGACGTC 360  
Db 328 CAACTGAAGATTTGCWACYTAYTWYGTCAACAGATTACAGTYCCCTMWSACKTY 387  
QY 361 GCCCAAGGGACCAAGTGGAATCAAA 387  
Db 388 GCCCMRGGACCAAGTGGARRTCARR 414

RESULT 12  
US-60-197-873-44  
; Sequence 44, Application US/60197873  
; GENERAL INFORMATION:  
; APPLICANT: Bejanin, Stephane  
; APPLICANT: Tanaka, Hiroaki  
; APPLICANT: Dumas Milne Edwards, Jean Baptiste  
; APPLICANT: Jobert, Severin  
; APPLICANT: Giordano, Jean-Yves  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: 81 US1 PRO  
; CURRENT APPLICATION NUMBER: US/60/197,873  
; CURRENT FILING DATE: 2000-04-18  
; NUMBER OF SEQ ID NOS: 52153  
; SOFTWARE: Patent.pm  
; SEQ ID NO 44  
; LENGTH: 500  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS

; LOCATION: 28..498  
; NAME/KEY: sig\_peptide  
; LOCATION: 28..93  
; OTHER INFORMATION: Von Heijne matrix  
; OTHER INFORMATION: score 13.6000003814697  
; OTHER INFORMATION: seq LGLLLMLRGARC/DI  
US-60-197-873-44  
Query Match 85.7%; Score 331.8; DB 63; Length 500;  
Best Local Similarity 86.0%; Pred. No. 8.8e-92;  
Matches 333; Conservative 26; Mismatches 28; Indels 0; Gaps 0;  
QY 1 ATGGACATGAGGTCCCCGCTCAGCTCCTGGGGCTCCTTCTGCTCTGGCTCCAGGTGCC 60  
Db 28 ATGGACATGAGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCAGGTGCC 87  
QY 61 AGATGTGACATCCAGATGACCCAGTCCATCTTCTGCTGTCATCTGTAGGGACAGA 120  
Db 88 AGATGTGACATCCAGATGACCCAGTCCATCTTCTGCTGTCATCTGTAGGGACAGA 147  
QY 121 GTCACCATCACTTGCAGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGAG 180  
Db 148 GTCACCATCACTTGCAGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGAG 207  
QY 181 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTCATCCAGTTTGCAAGTGGGTC 240  
Db 208 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTCATCCARTTTGCAAGTGGGTC 267  
QY 241 CCATCAAGTTTCAGGGAGTGATCTGGGACAGATTACCTCACCCTCAGCAGCTG 300  
Db 268 CCATCAAGTTTCAGGGAGTGATCTGGGACAGATTACCTCACCCTCAGCAGCTG 327  
QY 301 CAGCTGAAGATTTGGGACTTATCTGCTACAGTTTATAGTACCCCTCGGACGTC 360  
Db 328 CAACTGAAGATTTGCWACYTAYTWYGTCAACAGATTACAGTYCCCTMWSACKTY 387  
QY 361 GCCCAAGGGACCAAGTGGAATCAAA 387  
Db 388 GCCCMRGGACCAAGTGGARRTCARR 414

RESULT 13  
US-09-859-053-29  
; Sequence 29, Application US/09859053  
; GENERAL INFORMATION:  
; APPLICANT: Tsuji, Takashi  
; APPLICANT: Tezuka, Katsunari  
; APPLICANT: Hori, Nobuaki  
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODY AGAINST A  
; TITLE OF INVENTION: COSTIMULATORY SIGNAL TRANSDUCTION MOLECULE AILIM AND  
; TITLE OF INVENTION: PHARMACEUTICAL USE THEREOF  
; FILE REFERENCE: 06501-079001  
; CURRENT APPLICATION NUMBER: US/09/859,053  
; CURRENT FILING DATE: 2001-05-16  
; PRIOR APPLICATION NUMBER: JP 2001-99508  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: JP 2000-147116  
; PRIOR FILING DATE: 2000-05-18  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 974  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: 5'UTR  
; LOCATION: (1)...(38)  
; NAME/KEY: CDS  
; LOCATION: (39)...(746)  
; NAME/KEY: 3'UTR  
; LOCATION: (750)...(974)  
; NAME/KEY: sig\_peptide  
; LOCATION: (39)...(104)



; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/249,299  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/236,327  
; PRIOR FILING DATE: 2000-09-29  
; PRIOR APPLICATION NUMBER: 60/241,785  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/244,617  
; PRIOR FILING DATE: 2000-11-01  
; PRIOR APPLICATION NUMBER: 60/225,268  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/236,368  
; PRIOR FILING DATE: 2000-09-29  
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; PRIOR FILING DATE: 2000-12-08  
; PRIOR APPLICATION NUMBER: 60/251,868  
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; PRIOR APPLICATION NUMBER: 60/234,997  
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; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: 60/231,413  
; PRIOR FILING DATE: 2000-09-08  
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; PRIOR FILING DATE: 2000-10-02  
; PRIOR APPLICATION NUMBER: 60/237,038  
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; PRIOR APPLICATION NUMBER: 60/237,040  
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; PRIOR APPLICATION NUMBER: 60/246,474  
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; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/226,681  
; PRIOR FILING DATE: 2000-08-22  
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; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/225,213  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/227,182  
; PRIOR FILING DATE: 2000-08-22  
; PRIOR APPLICATION NUMBER: 60/225,214  
; PRIOR FILING DATE: 2000-08-14

; PRIOR APPLICATION NUMBER: 60/235,836  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/230,438  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/215,135  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: 60/225,266  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/249,218  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,208  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,213  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,212  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,207  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,245  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,244  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,217  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,211  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,215  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,264  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,214  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/249,297  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 60/232,400  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/231,242  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/232,081  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/232,080  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/231,414  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/231,244  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/233,064  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/233,063  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/232,397  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/232,399  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/232,401  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/241,808  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/241,826  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/241,786  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/241,221  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/246,475  
; PRIOR FILING DATE: 2000-11-08  
; PRIOR APPLICATION NUMBER: 60/231,243  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/233,065

Query Match 84.7%; Score 327.8; DB 42; Length 974;  
Best Local Similarity 90.4%; Pred. No. 2e-90;  
Matches 350; Conservative 0; Mismatches 37; Indels 0; Gaps 0;









Qy 121 GTCACATCCTGAGGCAAGTCAGGACATTAGTATTATTTAAATTTGGTATCAGCAG 180  
Db |||||  
Qy 127 GTCACATCCTGCGGCAAGTCAGGACATTAGCAGCTATTTAAATTTGGTATCAGCAG 186  
Db |||||  
Qy 181 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTTGCATCAGTTTGCAAAGTGGGTC 240  
Db |||||  
Qy 187 AAACAGGAAAGCTCCTAAGCTCCTGATCTATGTCATCAGTTTGCAAAGTGGGTC 246  
Db |||||  
Qy 241 CCATCAAGTTTACGGGAGTGGATCTGGGACAGAGTTTCACTCTCAGCGTCAGCAGCTG 300  
Db |||||  
Qy 247 CCATCAAGTTTACGGGAGTGGATCTGGGACAGAGTTTCACTCTCAGCGTCAGCAGCTG 306  
Db |||||  
Qy 301 CAGCCTGAAGTTTTCGCACTTATTACTGCTACAGGTTTATAGTACCCCTCGGACGTTTC 360  
Db |||||  
Qy 307 CAACCTGAAGTTTTCGCACTTATTACTGCTAACAGAGTTTACAGTACCCCTCGAAGCTTC 366  
Db |||||  
Qy 361 GGCACAGGACCAAGGTGGAATCAAA 387  
Db |||||  
Qy 367 GGCACAGGACCAAGGTGGAATCAAA 393  
Db |||||

## RESULT 2

PCT-US02-33944-24  
; Sequence 24, Application PC/TUS0233944  
; GENERAL INFORMATION:  
; APPLICANT: PSMA DEVELOPMENT COMPANY, L.L.C.  
; APPLICANT: MADON, Paul J.  
; APPLICANT: DONOVAN, Gerald P.  
; APPLICANT: OLSON, William C.  
; APPLICANT: SCHLKE, Norbert  
; APPLICANT: GARDNER, Jason  
; APPLICANT: MA, Dangshe

; TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS  
; FILE REFERENCE: P00453.70005.WO  
; CURRENT APPLICATION NUMBER: PCT/US02/33944  
; CURRENT FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: US 60/335,215  
; PRIOR FILING DATE: 2001-10-23  
; PRIOR APPLICATION NUMBER: US 60/362,747  
; PRIOR FILING DATE: 2001-03-07  
; PRIOR APPLICATION NUMBER: US 60/\_\_\_\_\_  
; PRIOR FILING DATE: 2002-09-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 24  
; LENGTH: 463  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Includes BamHI/BglII cloning junction, signal peptide, V region,  
; OTHER INFORMATION: of C region and 3'XbaI/NheI (heavy) or NheI (light) cloning junction

PCT-US02-33944-24

Query Match 81.8%; Score 316.4; DB 2; Length 463;  
Best Local Similarity 89.3%; Pred. No. 6.1e-94;  
Matches 341; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

Qy 6 CATGAGGTCCTGCTCAGCTCCTGGGCTCCTTCTGCTCTGGCTCCAGGTGCCAGATG 65  
Db |||||  
Qy 10 CATGAGGTCCTGCTCAGCTCCTGGGCTCCTGCTCTGTTTCCAGGTGCCAGATG 69  
Db |||||  
Qy 66 TGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGTCATCTGTAGGGACAGAGTAC 125  
Db |||||  
Qy 70 TGACATCCAGATGACCCAGTCTCCATCTTCTGCTGTCATCTGTAGGAGACAGAGTAC 129  
Db |||||  
Qy 126 CATCACTTCAGGCAAGTCAGGACATTAGGTTATTTAAATTTGGTATCAGAGAAACC 185  
Db |||||  
Qy 130 CATCACTTCGCGGAGTCAGGACATTAGCCATTATTAGCTGTTTCCAGAGAAACC 189  
Db |||||  
Qy 186 AGGAAAGCTCCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAGTGGGTCCCATC 245  
Db |||||  
Qy 190 AGGAAAGCTCCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAGTGGGTCCCATC 249  
Db |||||

Qy 246 AAGTTTCAGCGCAGTGGATCTGGGACAGAGTTTCACTCTCACCCTCAGCAGCTTCAGCC 305  
Db |||||  
Qy 250 AAAGTTTCAGCGCAGTGGATCTGGGACAGAGTTTCACTCTCACCCTCAGCAGCTTCAGCC 309  
Db |||||  
Qy 306 TGAAGATTTTCGCACTTATTACTGCTACAGGTTTATAGTACCCCTCGGACGTTTCGGCCA 365  
Db |||||  
Qy 310 TGAAGATTTTCGCACTTATTACTGCTCAACAGTAAATAGTTTCCCGCTCACTTTTCGGCGG 369  
Db |||||  
Qy 366 AGGACCAAGGTGGAATCAAA 387  
Db |||||  
Qy 370 AGGACCAAGGTGGAATCAAA 391  
Db |||||

## RESULT 3

US-10-395-894-24  
; Sequence 24, Application US/10395894  
; GENERAL INFORMATION:  
; APPLICANT: MADON, Paul J.  
; APPLICANT: DONOVAN, Gerald P.  
; APPLICANT: OLSON, William C.  
; APPLICANT: SCHLKE, Norbert  
; APPLICANT: GARDNER, Jason  
; APPLICANT: MA, Dangshe

; TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS  
; FILE REFERENCE: P00741.70005.US  
; CURRENT APPLICATION NUMBER: US/10/395,894  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: PCT/US02/33944  
; PRIOR FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: US 60/335,215  
; PRIOR FILING DATE: 2001-10-23  
; PRIOR APPLICATION NUMBER: US 60/362,747  
; PRIOR FILING DATE: 2002-03-07  
; PRIOR APPLICATION NUMBER: US 60/412,618  
; PRIOR FILING DATE: 2002-09-20  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 24  
; LENGTH: 463  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Includes BamHI/BglII cloning junction, signal peptide, V region,  
; OTHER INFORMATION: of C region and 3'XbaI/NheI (heavy) or NheI (light) cloning junction

US-10-395-894-24

Query Match 81.8%; Score 316.4; DB 15; Length 463;  
Best Local Similarity 89.3%; Pred. No. 6.1e-94;  
Matches 341; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

Qy 6 CATGAGGTCCTGCTCAGCTCCTGGGCTCCTTCTGCTCTGGCTCCAGGTGCCAGATG 65  
Db |||||  
Qy 10 CATGAGGTCCTGCTCAGCTCCTGGGCTCCTGCTCTGTTTCCAGGTGCCAGATG 69  
Db |||||  
Qy 66 TGACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGTCATCTGTAGGGACAGAGTAC 125  
Db |||||  
Qy 70 TGACATCCAGATGACCCAGTCTCCATCTTCTGCTGTCATCTGTAGGAGACAGAGTAC 129  
Db |||||  
Qy 126 CATCACTTCAGGCAAGTCAGGACATTAGGTTATTTAAATTTGGTATCAGAGAAACC 185  
Db |||||  
Qy 130 CATCACTTCGCGGAGTCAGGACATTAGCCATTATTAGCTGTTTCCAGAGAAACC 189  
Db |||||  
Qy 186 AGGAAAGCTCCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAGTGGGTCCCATC 245  
Db |||||  
Qy 190 AGGAAAGCTCCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAGTGGGTCCCATC 249  
Db |||||  
Qy 246 AAGTTTCAGCGCAGTGGATCTGGGACAGAGTTTCACTCTCACCCTCAGCAGCTTCAGCC 305  
Db |||||  
Qy 250 AAAGTTTCAGCGCAGTGGATCTGGGACAGAGTTTCACTCTCACCCTCAGCAGCTTCAGCC 309  
Db |||||  
Qy 306 TGAAGATTTTCGCACTTATTACTGCTACAGGTTTATAGTACCCCTCGGACGTTTCGGCCA 365  
Db |||||  
Qy 310 TGAAGATTTTCGCACTTATTACTGCTCAACAGTAAATAGTTTCCCGCTCACTTTTCGGCGG 369  
Db |||||

```

07 0.6 AAAAAAATAATGAAATAAA 487
08 0.7 AAAAAAATAATGAAATAAA 493

RESULT 4
PCT-US02-39550-113
Sequence 113, Application PC/TUS0239550
GENERAL INFORMATION:
APPLICANT: MADON, Paul J.
APPLICANT: DONOVAN, Gerald P.
APPLICANT: OLSON, William C.
APPLICANT: SCHSLKE, Noibert
APPLICANT: GARDNER, Jason
APPLICANT: MA, Daushe
TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS
FILE REFERENCE: P00741, 70005, US
CURRENT APPLICATION NUMBER: US/10/395,894
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: PCT/US02/33944
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: US 60/335,215
PRIOR FILING DATE: 2001-10-23
PRIOR APPLICATION NUMBER: US 60/362,747
PRIOR FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: US 60/412,619
PRIOR FILING DATE: 2002-09-25
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patent in version 3.1
SEQ ID NO 1:
LENGTH: 692
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Plasmid
US 10-395-894-10

Query Match 81.8%; Score 116.4; E-Value 1.0e-26
Best Local Similarity 89.1%; Pos: 100; Neg: 91
Matches 341; Conservative 0; Mismatches 40; Gaps 0

07 0.6 AAAAAAATAATGAAATAAA 487
08 0.7 AAAAAAATAATGAAATAAA 493

RESULT 6
PCT-US02-39550-113
Sequence 113, Application PC/TUS0239550
GENERAL INFORMATION:
APPLICANT: MADON, Paul J.
APPLICANT: DONOVAN, Gerald P.
APPLICANT: OLSON, William C.
APPLICANT: SCHSLKE, Noibert
APPLICANT: GARDNER, Jason
APPLICANT: MA, Daushe
TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS
FILE REFERENCE: P00741, 70005, US
CURRENT APPLICATION NUMBER: US/10/395,894
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: PCT/US02/33944
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: US 60/335,215
PRIOR FILING DATE: 2001-10-23
PRIOR APPLICATION NUMBER: US 60/362,747
PRIOR FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: US 60/412,619
PRIOR FILING DATE: 2002-09-25
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patent in version 3.1
SEQ ID NO 1:
LENGTH: 692
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Plasmid
US 10-395-894-10

Query Match 81.8%; Score 116.4; E-Value 1.0e-26
Best Local Similarity 89.1%; Pos: 100; Neg: 91
Matches 341; Conservative 0; Mismatches 40; Gaps 0

```

```

07 0.6 AAAAAAATAATGAAATAAA 487
08 0.7 AAAAAAATAATGAAATAAA 493

RESULT 6
PCT-US02-39550-113
Sequence 113, Application PC/TUS0239550
GENERAL INFORMATION:
APPLICANT: MADON, Paul J.
APPLICANT: DONOVAN, Gerald P.
APPLICANT: OLSON, William C.
APPLICANT: SCHSLKE, Noibert
APPLICANT: GARDNER, Jason
APPLICANT: MA, Daushe
TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS
FILE REFERENCE: P00741, 70005, US
CURRENT APPLICATION NUMBER: US/10/395,894
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: PCT/US02/33944
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: US 60/335,215
PRIOR FILING DATE: 2001-10-23
PRIOR APPLICATION NUMBER: US 60/362,747
PRIOR FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: US 60/412,619
PRIOR FILING DATE: 2002-09-25
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patent in version 3.1
SEQ ID NO 1:
LENGTH: 692
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Plasmid
US 10-395-894-10

Query Match 81.8%; Score 116.4; E-Value 1.0e-26
Best Local Similarity 89.1%; Pos: 100; Neg: 91
Matches 341; Conservative 0; Mismatches 40; Gaps 0

```

```

RESULT 6
PCT-US02-39550-113
Sequence 113, Application PC/TUS0239550
GENERAL INFORMATION:
APPLICANT: MADON, Paul J.
APPLICANT: DONOVAN, Gerald P.
APPLICANT: OLSON, William C.
APPLICANT: SCHSLKE, Noibert
APPLICANT: GARDNER, Jason
APPLICANT: MA, Daushe
TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS
FILE REFERENCE: P00741, 70005, US
CURRENT APPLICATION NUMBER: US/10/395,894
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: PCT/US02/33944
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: US 60/335,215
PRIOR FILING DATE: 2001-10-23
PRIOR APPLICATION NUMBER: US 60/362,747
PRIOR FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: US 60/412,619
PRIOR FILING DATE: 2002-09-25
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patent in version 3.1
SEQ ID NO 1:
LENGTH: 692
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Plasmid
US 10-395-894-10

Query Match 81.8%; Score 116.4; E-Value 1.0e-26
Best Local Similarity 89.1%; Pos: 100; Neg: 91
Matches 341; Conservative 0; Mismatches 40; Gaps 0

```

```

07 0.6 AAAAAAATAATGAAATAAA 487
08 0.7 AAAAAAATAATGAAATAAA 493

RESULT 6
PCT-US02-39550-113
Sequence 113, Application PC/TUS0239550
GENERAL INFORMATION:
APPLICANT: MADON, Paul J.
APPLICANT: DONOVAN, Gerald P.
APPLICANT: OLSON, William C.
APPLICANT: SCHSLKE, Noibert
APPLICANT: GARDNER, Jason
APPLICANT: MA, Daushe
TITLE OF INVENTION: PSMA ANTIBODIES AND PROTEIN MULTIMERS
FILE REFERENCE: P00741, 70005, US
CURRENT APPLICATION NUMBER: US/10/395,894
CURRENT FILING DATE: 2003-03-24
PRIOR APPLICATION NUMBER: PCT/US02/33944
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: US 60/335,215
PRIOR FILING DATE: 2001-10-23
PRIOR APPLICATION NUMBER: US 60/362,747
PRIOR FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: US 60/412,619
PRIOR FILING DATE: 2002-09-25
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patent in version 3.1
SEQ ID NO 1:
LENGTH: 692
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Plasmid
US 10-395-894-10

Query Match 81.8%; Score 116.4; E-Value 1.0e-26
Best Local Similarity 89.1%; Pos: 100; Neg: 91
Matches 341; Conservative 0; Mismatches 40; Gaps 0

```

```

RESULT 8
US-10-170-235-5868
; Sequence 5868, Application US/10170235
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig
; TITLE OF INVENTION: KITS, SUCH AS NUCLEIC ACID ARRAYS, COMPRISING A MAJORITY
; TITLE OF INVENTION: TRANSCRIPTS, FOR DETECTING EXPRESSION AND OTHER USES IN
; FILE REFERENCE: CLO01380
; CURRENT APPLICATION NUMBER: US/10/170,235
; CURRENT FILING DATE: 2003-03-17
; NUMBER OF SEQ ID NOS: 42514
; SEQ ID NO 5868
; LENGTH: 406
; TYPE: DNA
; ORGANISM: HUMAN

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Query March	80.8%	Score 312.6	DB 15	Length 406	
Best Local Similarity	90.7%	Prod. No. 1e-92			
Matches 333	Conservative	0	Mismatches 34	Indels 0	Gaps 0
QY	1	ATGGACATGAGGTC	CCCGCTCAGCTCTCTGGGGCTCTTCTGCTCTGGCTCCAGGTGCC	60	
Db	29	ATGGACATGAGGTC	CCCGCTCAGCTCTCTGGGGCTCTTCTGCTCTGGCTCCAGGTGCC	88	
QY	61	AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGA	120		
Db	89	AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGACAGA	148		
QY	121	GTCCACCATCACTTGAGGGGCAAGTCAGACATTAAGGTATTATTAAATTTGGTATCAGCAG	180		
Db	149	GTCCACCATCACTTGCGGGCAAGTCAGACATTAAGCAGCTATTTAAATTTGGTATCAGCAG	208		
QY	181	AAACCCAGGAAAGTCTTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAAGTGGGGTC	240		
Db	209	AAACCCAGGAAAGCCCCTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAAAAGTGGGGTC	268		
QY	241	CCATCAAGTTTCAGCGGCAGTGGATCTGGGACAGAGTTTCACCTCTCACCGTCAGCAGCCTG	300		
Db	269	CCATCAAGTTTCAGTGGCAGTGGATCTGGACAGATTTCACCTCTCACCATCAGCAGTCTG	328		
QY	301	CAGCCTGAAGATTTTGGCACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC	360		
Db	329	CAACCTGAAGATTTTGGCACTTACTACTGTCAACAGAGTTACAGTACCCCTCCACAGTG	388		

25  
301 CAGCCTGAAGATTTTGGCACTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360  
329 CAACCTGAAGATTTTGGCACTTTACTACTGTCAACAGAGTTACAGTACCCCTCCACAGTG 388













Best Local Similarity 100.0%; Pred. No. 9.8e-113;  
Matches 387; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy 1 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGCTCCAGTGCC 60
Db 1 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGCTCCAGTGCC 60
Qy 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCTATCTGTAGGGACAGA 120
Db 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCTATCTGTAGGGACAGA 120
Qy 121 GTCACCATCATTGTCAGGSCAAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 180
Db 121 GTCACCATCATTGTCAGGSCAAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 180
Qy 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTGATCCAGTTTGCAGTTTGCAGTTGCGGTC 240
Db 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTGATCCAGTTTGCAGTTTGCAGTTGCGGTC 240
Qy 241 CCATCAAGGTTTCAGCGGAGTCGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTG 300
Db 241 CCATCAAGGTTTCAGCGGAGTCGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTG 300
Qy 301 CAGCCTGAAGATTTTTCGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
Db 301 CAGCCTGAAGATTTTTCGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
Qy 361 GGCCAAGGGACCAAGTGGAATCAAA 387
Db 361 GGCCAAGGGACCAAGTGGAATCAAA 387
```

## RESULT 2

```
US-09-343-485A-3
; Sequence 3, Application US/09343485A
; Patent No. 6413777
; GENERAL INFORMATION:
; APPLICANT: REFF, MITCHELL R.
; APPLICANT: BARNETT, RICHARD S.
; APPLICANT: MCLACHLAN, KAREN R.
; TITLE OF INVENTION: NOVEL METHOD FOR INTEGRATING GENES AT SPECIFIC SITES IN
; TITLE OF INVENTION: MAMMALIAN CELLS VIA HOMOLOGOUS RECOMBINATION AND
; TITLE OF INVENTION: VECTORS FOR ACCOMPLISHING THE SAME
; FILE REFERENCE: 037003-0275807
; CURRENT APPLICATION NUMBER: US/09/343,485A
; CURRENT FILING DATE: 1999-06-30
; PRIOR APPLICATION NUMBER: 09/023,715
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 08/819,866
; PRIOR FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 19040
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
; OTHER INFORMATION: referred to as "Mandy"
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Query Match  
Best Local Similarity 100.0%; Score 387; DB 4; Length 19040;  
Matches 387; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGCTCCAGTGCC 60
Db 7545 ATGGACATGAGGTCCTCCGCTCAGCTCTGGGGCTCTTCTGCTCTGGCTCCAGTGCC 7604
Qy 61 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCTATCTGTAGGGACAGA 120
Db 7605 AGATGTGACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCTATCTGTAGGGACAGA 7664
```

```
Qy 121 GTCACCATCATTGTCAGGSCAAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 180
Db 7665 GTCACCATCATTGTCAGGSCAAAGTCAGGACATTAGGTATTTAAATTTGGTATCAGCAG 7724
Qy 181 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTGATCCAGTTTGCAGTTTGCAGTTGCGGTC 240
Db 7725 AAACAGGAAAGCTCTTAAGCTCTGATCTATGTGATCCAGTTTGCAGTTTGCAGTTGCGGTC 7784
Qy 241 CCATCAAGGTTTCAGCGGAGTCGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTG 300
Db 7785 CCATCAAGGTTTCAGCGGAGTCGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTG 7844
Qy 301 CAGCCTGAAGATTTTTCGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 360
Db 7845 CAGCCTGAAGATTTTTCGACTTATTACTGTCTACAGGTTTATAGTACCCCTCGGACGTTTC 7904
Qy 361 GGCCAAGGGACCAAGTGGAATCAAA 387
Db 7905 GGCCAAGGGACCAAGTGGAATCAAA 7931
```

## RESULT 3

```
US-09-042-353-358
; Sequence 358, Application US/09042353
; Patent No. 6255458
; GENERAL INFORMATION:
; APPLICANT: Lonberg, Nils
; APPLICANT: Kay, Robert M.
; TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for
; TITLE OF INVENTION: Producing Heterologous Antibodies
; NUMBER OF SEQUENCES: 421
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/042,353
; FILING DATE: 13-MAR-1998
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/810,279
; FILING DATE: 17-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/853,408
; FILING DATE: 18-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/904,068
; FILING DATE: 23-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/990,860
; FILING DATE: 16-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/053,131
; FILING DATE: 26-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/096,762
; FILING DATE: 22-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,301
; FILING DATE: 18-NOV-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/161,739
; FILING DATE: 03-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/165,699
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DB 361 GGCCAGGGAACCAAGTGGAGATCAA 387

## RESULT 5

US-08-157-101A-4  
; Sequence 4, Application US/08157101A  
; Patent No. 5808032

## GENERAL INFORMATION:

APPLICANT: KURIHARA, TATSUO  
APPLICANT: MATSUKURA, SHIGEKAZU  
APPLICANT: TSURUOKA, NOBUO  
APPLICANT: ARIMA, KENJI  
APPLICANT: NISHIHARA, TATSURO  
TITLE OF INVENTION: ANTI-HBS ANTIBODY GENES AND EXPRESSION  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSES: PILLSBURY, MADISON & SUTRO  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/157,101A  
FILING DATE: 05-APR-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: TITUS, MARLANA K  
REGISTRATION NUMBER: 35843  
REFERENCE/DOCKET NUMBER: 9437/204199  
TELEPHONE: 202-861-3711  
TELEFAX: 202-822-0944  
TELEX: 6714627 CUCH

## INFORMATION FOR SEQ ID NO: 4:

## SEQUENCE CHARACTERISTICS:

LENGTH: 1066 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-157-101A-4

Query Match

Best Local Similarity

Matches 343; Conservative. 0; Mismatches 44; Indels 0; Gaps 0;

81.8%; Score 316.6; DB 1; Length 1066;

88.6%; Pred. No. 2.3e-90;

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DB 153 GTCAACATCACTTGTGGGCGAGTCAGGGCATTGGCAATTAATTAATTTGGTATCAGCAG 212  
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## RESULT 6

US-08-217-918-1  
; Sequence 1, Application US/08217918  
; Patent No. 5506132

## GENERAL INFORMATION:

APPLICANT: LAKE, PHILIP  
APPLICANT: OSTBERG, LARS  
TITLE OF INVENTION: HUMAN ANTIBODIES AGAINST  
TITLE OF INVENTION: VARICELLA-ZOSTER VIRUS  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourie and Crew  
STREET: 379 Lytton Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: US  
ZIP: 94301

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/217,918  
FILING DATE: 24-MAR-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, William M  
REGISTRATION NUMBER: 30,223  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 326-2400  
TELEFAX: (415) 326-2422

## INFORMATION FOR SEQ ID NO: 1:

## SEQUENCE CHARACTERISTICS:

LENGTH: 387 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FEATURE:

NAME/KEY: CDS

LOCATION: 1..387

US-08-217-918-1







[illegible]

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; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Burns, Doane, Swecker & Mathis
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/634,224
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/488,376
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-150
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 705 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..705
; US-08-634-224-16

Query Match 78.6%; Score 304.2; DB 2; Length 705;
Best Local Similarity 87.4%; Pred. No. 1.5e-86;
Matches 333; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 7 ATGAGGGTCCCGCTCAGCTCCTGGGGTCTCTGCTCTGGCTCCCGAGTGCCAGATGT 66
DB 1 ATGGAGACCCCTGCTCAGCTCCTGGGGTCTCTGCTCTGGCTCCCGAGTGCCAGATGT 60
QY 67 GACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGAGTCACC 126
DB 61 GACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGAGTCACC 120
QY 127 ATCACTTGCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGCAGAAACCA 186
DB 121 ATCACTTGCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGCAGAAACCA 180
QY 187 GGAAGAGCTCTTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAGAGTGGGGTCCCATCA 246
DB 181 GGAAGAGCTCTTAAGCTCCTGATATATGCTGGATCCAAATTTGCACCGTGGGGTCCCGTCA 240
QY 247 AGGTTCCAGGGCAGTGGATCTGGGACAGAGTTTCACTCTCACCGTCAGAGCCCTGAGCCT 306
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QY 307 GAAGATTTTGGCAGTTTATTAAGTCTACAGGTTTATAGTACCCCTCGGACGTTTGGCCAA 366
DB 301 GAAGATTTTGGCAGTTTATTAAGTCTACAGGTTTATAGTACCCCTCGGACGTTTGGCCAA 360
QY 367 GGAACCAAGGTGGAAATCAAA 387
DB 361 GGAACCAAGGTGGAAATCAAA 381

RESULT 12
US-08-634-400-16

; Sequence 16, Application US/08634400
; Patent No. 5919068
; GENERAL INFORMATION:
; APPLICANT: BRAMS, Peter
; APPLICANT: CHAMAT, Soulaïma Salim
; APPLICANT: PAN, Li-Zhen
; APPLICANT: WALSH, Edward E.
; APPLICANT: HEARD, Cheryl Janne
; APPLICANT: NEWMAN, Roland Anthony
; TITLE OF INVENTION: NEUTRALIZING HIGH AFFINITY HUMAN
; TITLE OF INVENTION: MONOCLONAL ANTIBODIES SPECIFIC TO RSV F-PROTEIN AND
; TITLE OF INVENTION: METHODS FOR THEIR MANUFACTURE AND THERAPEUTIC USE THEREOF
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Burns, Doane, Swecker & Mathis
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/634,400
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/488,376
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-150
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 705 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..705
; US-08-634-400-16

Query Match 78.6%; Score 304.2; DB 2; Length 705;
Best Local Similarity 87.4%; Pred. No. 1.5e-86;
Matches 333; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 7 ATGAGGGTCCCGCTCAGCTCCTGGGGTCTCTGCTCTGGCTCCCGAGTGCCAGATGT 66
DB 1 ATGGAGACCCCTGCTCAGCTCCTGGGGTCTCTGCTCTGGCTCCCGAGTGCCAGATGT 60
QY 67 GACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGAGTCACC 126
DB 61 GACATCCAGATGACCCAGTCTCCATCTTCCCTGTCTGCATCTGTAGGGGACAGAGTCACC 120
QY 127 ATCACTTGCAGGGCAAGTCAGGACATTAGGTATTATTTAAATTGGTATCAGCAGAAACCA 186
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QY 187 GGAAGAGCTCTTAAGCTCCTGATCTATGTTGCATCCAGTTTGCAGAGTGGGGTCCCATCA 246
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QY 247 AGGTTCCAGGGCAGTGGATCTGGGACAGAGTTTCACTCTCACCGTCAGAGCCCTGAGCCT 306
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QY 307 GAAGATTTTGGCAGTTTATTAAGTCTACAGGTTTATAGTACCCCTCGGACGTTTGGCCAA 366
DB 301 GAAGATTTTGGCAGTTTATTAAGTCTACAGGTTTATAGTACCCCTCGGACGTTTGGCCAA 360
QY 367 GGAACCAAGGTGGAAATCAAA 387
DB 361 GGAACCAAGGTGGAAATCAAA 381
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; NAME/KEY: CDS
; LOCATION: 1..705
US-08-770-057-16

Query Match      78.6%; Score 304.2; DB 2; Length 705;
Best Local Similarity 87.4%; Pred. No. 1.5e-86;
Matches 333; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

Qy 7 ATGAGGTCCTCCGCTCAGCTCTGGGCTCTCTGCTGCTGCTCCAGGTGCCAGATGT 66
Db 1 ATGGAGACCCCTGCTCAGCTCTGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60

Qy 67 GACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 126
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Qy 127 ATCACTTGCGAGGCAAGTCAGACATTTAGGTATTTAAATTTGGTATCAGCAGAAACCA 186
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Qy 367 GGGACCAAGGTGGAAATCAAA 387
Db 361 GGGACCAAGGTGGAAATCAAA 381

RESULT 15
US-09-335-697B-16
; Sequence 16, Application US/09335697B
; Patent No. 6200804
; GENERAL INFORMATION:
; APPLICANT: BRAMS, Peter
; CHAMAT, Soulaime Salim
; PAN, Li-Zhen
; WALSH, Edward E.
; HEARD, Cheryl Janne
; NEWMAN, Roland Anthony
; TITLE OF INVENTION: NEUTRALIZING HIGH AFFINITY HUMAN
; MONOCLONAL ANTIBODIES SPECIFIC TO RSV F-PROTEIN AND
; METHODS FOR THEIR MANUFACTURE AND THERAPEUTIC USE THEREOF
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Burns, Doane, Swecker & Mathis
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/335,697B
; FILING DATE: 06-Jul-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/770,057
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
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; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-150
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 705 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..705
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-335-697B-16

Query Match      78.6%; Score 304.2; DB 4; Length 705;
Best Local Similarity 87.4%; Pred. No. 1.5e-86;
Matches 333; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

Qy 7 ATGAGGTCCTCCGCTCAGCTCTGGGCTCTCTTCTGCTGCTGCTCCAGGTGCCAGATGT 66
Db 1 ATGAGAGACCCCTGCTCAGCTCTGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60

Qy 67 GACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 126
Db 61 GACATCCAGATGACCCAGTCTCCATCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120

Qy 127 ATCACTTGCGAGGCAAGTCAGGACATTTAGGTATTTAAATTTGGTATCAGCAGAAACCA 186
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Qy 187 GGAAAGCTCCTAAGCTCTGATCTATGTTGCATCCAGTTTGCRAAGTGGGTCCTCATCA 246
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Qy 247 AGGTTTCAGCGGCGAGTGGATCTGGGACAGAGTTTCACTCTCACCGTCAGCAGCCTGCAGCCT 306
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Qy 307 GAAGATTTTGCACCTTATCTGCTACAGGTTTATAGTACCCCTCGGACGTTTGGGCAA 366
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Qy 367 GGGACCAAGGTGGAAATCAAA 387
Db 361 GGGACCAAGGTGGAAATCAAA 381
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TITLE Baboon immunoglobulin variable region heavy chains: identification of genes homologous to members of the human IGHV1-IGHV7 subgroups

JOURNAL Immunogenetics 53 (10-11), 815-820 (2002)

MEDLINE 21850497

PUBMED 11862381

REFERENCE 2 (bases 1 to 429)

AUTHORS Scinicariello,F., Jayashankar,L. and Attanasio,R.

TITLE Direct Submission

JOURNAL Submitted (04-SEP-2001) Department of Biology, Georgia State University, PO BOX 4010, Atlanta, GA 30302, USA

FEATURES Location/Qualifiers

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BASE COUNT 87 a 107 c 141 g 94 t

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Query Match 74.9%; Score 307.8; DB 9; Length 429;

Best Local Similarity 88.7%; Pred. No. 1.1e-72;

Matches 375; Conservative 0; Mismatches 27; Indels 21; Gaps 3;

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QY 357 -----CTTGACTACAGGGTCTGACTCTCTGGGGCCAGGGAGTCTTGGTCAACCGTCTCC 408

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QY 409 TCA 411

DB 412 TCA 414

RESULT 2

HUMIGHADC 405 bp mRNA linear PRI 09-NOV-1994

LOCUS Human Ig rearranged gamma-chain mRNA V-region, 5' end of cds (from clone S1P15).

DEFINITION

ACCESSION L06912

VERSION L06912.1

KEYWORDS V-region; immunoglobulin gamma-chain; immunoglobulin heavy chain; processed gene.

SOURCE Homo sapiens (tissue library: BC) Female Adult Synovium cDNA to mRNA.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 405)

AUTHORS Bridges,S.L. Jr., Lee,S.K., Koopman,W.J. and Schroeder,H.W. Jr.

TITLE Analysis of immunoglobulin gamma heavy chain expression in synovial tissue of a patient with rheumatoid arthritis

JOURNAL Arthritis Rheum. 36 (5), 631-641 (1993)

MEDLINE 93256941

PUBMED 8489540

FEATURES Location/Qualifiers

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Query Match 71.3%; Score 293; DB 9; Length 405;

Best Local Similarity 83.9%; Pred. No. 1.1e-68;

Matches 345; Conservative 0; Mismatches 60; Indels 6; Gaps 1;

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QY 361 ACTACAGGGTCTGACTCTCTGGGGCCAGGGAGTCTTGGTCAACCGTCTCTCTCA 411

DB 355 GTTGAGAGCGGGGCTTACTGGGGCCAGGAACCTTGTGTACCGTCTCTCTCA 405









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Qy 1 ATGGAGTTGGGCTGAGCTGGGTTTCTCTTGTCTCTTTGAAAGGTGTCAGGTGAG 60
Db 1 ATGGAGTTGGGCTGCTGCTGGGTTTCTTGTGTCTATTAGAGAGGTGCCAGTGTAG 60
Qy 61 GTGCAGCTGTGGAGTCTGTGGGGCGGCTTGGCAAGCCTGGGGGTCTCCTGAGACTCTCC 120
Db 61 GTGCAGCTGTGGAGTCTGTGGGGCGGCTTGGTACAGCCTGGAGGCTCCCTGAGACTCTCC 120
Qy 121 TCCGAGCTCCGGGTTACAGTTACCTTCACTACTACTACATGAGTGGTCCGCCAG 180
Db 121 TGTGAGGCTCTG-----GATTCACCTTCAGTAGTTATGAATGAATGAGTGGTCCGCCAG 174
Qy 181 GCTCAGGCGACGGGCTGGAGTGGGTCTCACGCTATTAGTAGTGGTGTATCCCATATGG 240
Db 175 GCTCAGGGAAGGGCTGGAGTGGGTTCATACATTAGTAGTGGTGTATCCATATAC 234
Qy 241 TACGAGACTCTCGTGAAGGCGAGATTCACCATCTCCAGAGAGAACGCCAACACACTG 300
Db 235 TACGAGACTCTGTGAAGGGCGATTCACCATCTCCAGAGAGAACGCCAACAACTCACTG 294
Qy 301 TTTCTTCAATCAACAGCTGAGAGTGGAGGACGCGTGTCTATTACTGTGCG----- 354
Db 295 TATCTGCAATGAACAGCTGAGAGCGGAGGACGCGTGTATTATTACTGTGCGAGAGAT 354
Qy 355 -----AGCTGACTACAGGCTGACTCTCTGGGCGAGGAGTCTGTGTCAACGCTC 405
Db 355 TTATCAGCAGCTGTGTATTATGAGGAGACTACTGGGCGAGGAACTCTGTGTACCGTTC 414
Qy 406 TCCTCA 411
Db 415 TCCTCA 420
RESULT 9
AF062260
LOCUS
DEFINITION
Homo sapiens clone Xu-15 immunoglobulin heavy chain variable region
(IGH) mRNA, partial cds.
ACCESSION
AF062260
VERSION
AF062260.1 GI:3170986
KEYWORDS
Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 402)
AUTHORS Wang,X. and Stollar,B.D.
TITLE Immunoglobulin VH gene expression in human aging
JOURNAL Clin. Immunol. 93 (2), 132-142 (1999)
MEDLINE 99459182
PUBMED 10527689
REFERENCE
2 (bases 1 to 402)
AUTHORS Wang,X. and Stollar,B.D.
TITLE Direct Submission
JOURNAL Submitted (24-APR-1998) Biochemistry Department, Tufts University
School of Medicine, 136 Harrison Ave., Boston, MA 02111, USA
FEATURES
Location/Qualifiers
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Best Local Similarity 83.7%; Pred. No. 6.8e-65;
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Qy 1 ATGGAGTTGGGCTGAGCTGGGTTTCTCTTGTCTCTTTTAAAGGTGTCAGTGTAG 60
Db 1 ATGGAGTTGGGCTGAGCTGGGCTTTTCTTGTGTGCTATTTTAAAGGTGTCAGTGTAG 60
Qy 61 GTGCAGCTGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCTCCTGAGACTCTCC 120
Db 61 GTGCAGCTGTGGAGTCTGGGGCGGCTTGGTACAGCCTGGGGGTCTCCTGAGACTCTCC 120
Qy 121 TGGCAGCCTCCGGGTTTTCAGTTTACCTTCAA-AACTACTACATGAGTGGGTCCGCCAG 180
Db 121 TGTGACCTCTG-----GATTCACCTTTAGCAGCTATGCCATGAGCTGGGTCCGCCAG 174
Qy 181 GCTCCAGGCGAGGGCTGGAGTGGGTCTCAGTATTAGTAGTAGTGTGATCCACATGG 240
Db 175 GCTCCAGGGAAGGGCTGGAGTGGGTCTCAGTATTAGTGTGTGTTAGTGTGATCAGATAC 234
Qy 241 TACGAGACTCTGTGAAGGGCGATTCACCATCTCCAGAGAGAACGCCAACAACTCACTG 294
Db 235 TACGAGACTCTGTGAAGGGCGATTCACCATCTCCAGAGAGAACGCCAACAACTCACTG 294
Qy 301 TTTCTTCAATGAACAGCTGAGAGTGGAGACACGCGTGTCTATTACTGTGCGAGCTTG 360
Db 295 TATCTGCAATGAACAGCTGAGAGCGGAGACACGCGGTATATTACTGTGCG-----G 348
Qy 361 ACTACAGGCTGTACTCTCTGGGGCGAGGAGTCTGTGTACCGTCTCTCTCA 411
Db 349 AAGATGGTGTGTCTACTTGGGGCGAGGAACTCTGTGTACCGTCTCTCTCA 399
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RESULT 12
LOCUS HSVHIC10 408 bp mRNA linear PRI 15-FEB-1996
DEFINITION H.sapiens mRNA for immunoglobulin heavy chain V-region (clone
CDN3IC10).
ACCESSION Z47226
VERSION 247226
KEYWORDS immunoglobulin; immunoglobulin heavy chain; variable region.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 408)
AUTHORS Demaison,C., David,D., Letourneur,F., Zouali,M., Saragosti,S. and
Theze,J.
TITLE A cDNA/anchor-PCR approach to analyse the human VH gene repertoire
expressed by peripheral CD19+ B cells reveals a strong bias usage
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 408)
AUTHORS Demaison,C.
TITLE Direct Submission
JOURNAL Submitted (16-DEC-1994) Christophe Demaison, Immunologie, Unite
d'Immunogenetique Cellulaire-Institut Pasteur, 25, rue du Docteur
Roux, Paris, 75015, FRANCE
REFERENCE 3 (bases 1 to 408)
AUTHORS Demaison,C., David,D., Letourneur,F., Theze,J., Saragosti,S. and
Zouali,M.
TITLE Analysis of human VH gene repertoire expression in peripheral CD19+
B cells
JOURNAL Immunogenetics 42 (5), 342-352 (1995)
MEDLINE 96006568
PUBMED 7590967
FEATURES
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Location/Qualifiers
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/db_xref="taxon:9606"
/clone="CDN3IC10"
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/tissue_type="peripheral blood lymphocyte"
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58..408
V_region
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BASE COUNT 83 a 101 c 129 g 95 t
ORIGIN
Query Match 67.7%; Score 278.4; DB 9; Length 408;
Best Local Similarity 83.1%; Pred. No. 9.9e-65;
Matches 344; Conservative 0; Mismatches 61; Indels 9; Gaps 2;
Qy 1 ATGGAGTTGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGGTGAG 60
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Db 61 GTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTACAGCTGGGGGTCCTCAGACTCTCC 120
Qy 121 TCGCAGGCTCGGGTTGAGTTTACCTTCAATAAATACTACTAGGACTGGGTGCGCCAG 180
Db 121 TGTGAGGCTCTG-----GATTACCTTTAGCAGCTATGCCATGAGCTGGGTGCGCCAG 174
Qy 181 GCTCAGGCGAGGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGATCCACATGG 240
Db 175 GCTCAGGGAAGGGCTGGAGTGGGTCTCAGCTATTAGTGGTAGTGGGTAGCACATAC 234
Qy 241 TACGAGACTCCGTAAGGGAGATTACACCATCTCCAGAGAGAACGCCAAACACACTG 300
Db 235 TACGAGACTCCGTAGAGGCGGTTTACCATCTCCAGAGACAAATCCAGNACAGCTG 294
Qy 301 TTCTTCAAATGAACAGCTGAGAGCTGAGGACACGGCTGCTATTACTGTGCGAGCTTG 360
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Db 295 TATCTGCAATGAACAGCTTGAGCGGAGACACGGCGGTATATTACTGTGCAAGAT 354
Qy 361 ACTACAGGTC---TGACTCTGGGGCCAGGAGTCTCTGGTCAACGCTCTCTCA 411
Db 355 GCCCCTTGAGCCGAGACTACTGGGGCCAGGAACCTCTGGTCAACGCTCTCTCA 408
RESULT 13
LOCUS HUMIGHCXE 470 bp mRNA linear PRI 11-JUL-1995
DEFINITION Human fecal Ig heavy chain variable region (clone M43) mRNA,
partial cds.
ACCESSION M34024
VERSION M34024.1 GI:185267
KEYWORDS D-region; J-region; V-region; immunoglobulin heavy chain; processed
gene.
SOURCE Homo sapiens (individual isolate H8409) (clone: M43) 104 day foetus
liver cDNA to mRNA.
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 470)
AUTHORS Schroeder,H.W. Jr. and Wang,J.Y.
TITLE Preferential utilization of conserved immunoglobulin heavy chain
variable gene segments during human fetal life
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 872 (1691), 6146-6150 (1990)
MEDLINE 90349571
COMMENT Draft entry and computer-readable sequence for [Proc. Natl. Acad.
Sci. U.S.A. (1990) in press] kindly submitted
by H.W.Schroeder,Jr., 04-MAY-1990.
FEATURES
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/gene="IGH@"
/notes="fetal Ig; putative"
/codon_start=3
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GGILVOPGGSRLSCASGFTFSYAMSVROAPGKLEWVSALSGSGSTYYADSVK
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422..423
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Best Local Similarity 82.6%; Pred. No. 2.1e-64;
Matches 347; Conservative 0; Mismatches 58; Indels 15; Gaps 2;
Qy 1 ATGAGATTGGGTGAGCTGGGTTTCTTCTTCTCTTTTAAAGGTGTCAGGTGAG 60
Db 57 ATGAGATTGGGTGAGCTGGCTTTTCTTGTGCTATTTTAAAGGTGTCAGGTGAG 116
Qy 61 GTGCAGCTGTTGAGTCTGGGGGGCTTGGCAAGCTGGGGGTCCTCAGACTCTCC 120
Db 117 GTGCAGCTGTTGAGTCTGGGGAGGCTTGGTACGCTGGGGGTCCTCAGACTCTCC 176
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BASE COUNT		93 a	104 c	136 g	104 t
ORIGIN					
Query Match		67.4%; Score 277; DB 9; Length 437;			
Best Local Similarity		83.2%; Pred. No. 2.4e-64;			
Matches 342; Conservative 0; Mismatches 60; Indels 9; Gaps 2;					
Qy	1	ATGGAGTTTGGGCTGAGCTGGGTTTTCCCTTTTCAAAAGGTGCCAGTGTGAG	60		
Db	36	ATGGAGTTTGGGCTGAGCTGGGTTTTCTTGGCTATTTTAAAGGTGCCAGTGTGAG	95		
Qy	61	GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCCTGAGACTCTCC	120		
Db	96	GTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACATCCTGGGGGTCCCTGAGACTCTCC	155		
Qy	121	TCCGCAGCCTCCGGGTTCAAGTTCACTTCAATAACTACTACATGGACTGGGTCCGCCAG	180		
Db	156	TGTGCAGCCTCTG-----GATTCACTTTAGCAGCTATGCCATGAGCTGGGTCCGCCAG	209		
Qy	181	GCTCCAGGCGAGGGCTGGAGTGGGTCTCACGTATTAGTAGTGGTGATCCACATGG	240		
Db	210	GCTCCAGGGAAGGGCTGGAGTGGGTCTCAGCTATTAGTGGTAGTGGTAGCACATAC	269		
Qy	241	TACGCAGACTCCGTGAAGGGCAGATTCAACATCTCCAGAGAGAACGCCAACACACTG	300		
Db	270	TACTCAGACTCCGTGAAGGGCCGGCTCACCATCTCCAGAGACAATTCCAAGAACACGCTG	329		
Qy	301	TTTCTTCAAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG	360		
Db	330	TATCTGCAAAATGAACAGCCTGAGAGCCGAGGACACGGCCGTATATTACTGTGCCAGATGG	389		
Qy	361	ACTACAGGGTCTGACTCTCCTGGGGCCAGGGAGTCCCTGGTCACCGCTCTCCTCA	411		
Db	390	---CGGATCTAGACTACTTGGGGCCAGGGAACCTGGTCACCGCTCTCCTCA	437		

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Job time : 1380.91 secs



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/db_xref="taxon:9606"
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/clone_lib="NIH_MGC_36"
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/cell_type="germinal center B cells"
/lab_host="DH10B (LTI)"
/notes="Vector: pTT3-Pac; Site 1: NotI; Site 2: Eco RI;
Constructed from size fractionated cytoplasmic mRNA
(0.5-1.5kb). Directionally cloned. Cells provided by Louis
M. Staudt, Ph.D. Library preparation by Maria de Fatima
Bonaldio, Ph.D. and M. Bento Soares, Ph.D."
BASE COUNT      89 a   93 c   123 g   100 t   1 others
ORIGIN

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Query Match      69.9%; Score 287.2; DB 10; Length 406;
Best Local Similarity 83.0%; Pred. No. 5.7e-70;
Matches 341; Conservative 0; Mismatches 64; Indels 6; Gaps 1;

Qy 1 ATGGAGTTTGGCTGAGCTGGGTTTCTCTGTTCTCTTTGAAAGGTGTCAGTGTGAG 60
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Db 62 GTGCAGCTGGTGTGAGTCTGGGGCGCTTGGTACAGCCTGGAGGTCCTCAGACTCTCC 121
Qy 121 TCCGAGCTCCGGTTGAGTTTCACTTCACTTAATACTACTATGAGTGGTCCGCCAG 180
Db 122 TGTGAGCCTCTG-----GATTCACCTTCAGTAGTTATGAATGAACCTGGGTCGCCAG 175
Qy 181 GCTCAGGCGAGGGCTGAGTGGGTCTCACTGTTAGTAGTGGTGTGATCCACATGG 240
Db 176 GCTCAGGGAAGGGCTGAGTGGGTTCATACATAGTAGTGGTGTGATCCATATAC 235
Qy 241 TACGAGACTCCGTGAAGGCGAGATTCACATCTCCAGAGAACCCCAACACACTG 300
Db 236 TACGAGACTCTGTGAAGGCGGATTCACATCTCCAGAGAACCCCAACACTG 295
Qy 301 TTCTTCAATGAACAGCTGAGCTGAGGACGAGGCTGTCTATTACTGTGCGAGCTG 360
Db 296 TATCTGCAATGAACAGCTGAGGCGGAGGACGAGGCTGTCTATTACTGTGCGAGTCA 355
Qy 361 ACTCAGGCTCTGACTCTCTGGGGCCAGGAGTCTGCTGCTCAGCTCTCTCTCA 411
Db 356 TATACACAGCTGTGACTGTGGGGCCAGGAGTCTGCTGCTCAGCTCTCTCTCA 406

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RESULT 2
BM007475
LOCUS      603616742F1 NIH_MGC_113 Homo sapiens cDNA clone IMAGE:5440475 5',
DEFINITION mRNA sequence.
ACCESSION  BM007475
VERSION     BM007475.1 GI:16521829
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 613)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-remail.nih.gov
            Tissue Procurement: Dr. Mark Watson
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:

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http://image.llnl.gov
Plate: L1CM1913 row: d column: 12
High quality sequence stop: 608.
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                     /lab_host="DH10B (phage-resistant)"
                     /notes="Organ: spleen; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally cloned
                     into EcoRI/XhoI sites using the following 5' adaptor:
                     GGCACGAG(G). Library constructed by Ling Hong in the
                     laboratory of Gerald M. Rubin (University of California,
                     Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
                     Superscript II RT (Life Technologies). Note: this is a
                     NIH MGC Library."
BASE COUNT      126 a   172 c   174 g   141 t
ORIGIN
Query Match      68.5%; Score 281.6; DB 13; Length 613;
Best Local Similarity 83.6%; Pred. No. 2.4e-68;
Matches 346; Conservative 0; Mismatches 59; Indels 9; Gaps 2;

Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTGTTCTCTTTGAAAGGTGTCAGTGTGAG 60
Db 64 ATGGAACCTGGGCTCCGCTGGTTCCTGTTCTATTATTAGAAGGTGTCAGTGTGAG 123
Qy 61 GTGCAGCTGGTGTGAGTCTGGGGCGCTTGGCAAGCCTGGGGGTCCTCAGACTCTCC 120
Db 124 GTGCAGCTGGTGTGAGTCTGGGGGAGGCTGCTCAAGCCTGGGGGTCCTCAGACTCTCC 183
Qy 121 TGCGCAGCTCCGGTTGAGTTCAGCTTCACTTCAATACTACTACATGAGTGGTCCGCCAG 180
Db 184 TGTGAGCCTCTG-----GAAACACCTTCAGTAACATATACGTGAACCTGGTCCGCCAG 237
Qy 181 GCTCAGGCGAGGGCTGAGTGGGTCTCAGTATTAGTAGTGGTGTGATCCACATGG 240
Db 238 GCTCAGGGAAGGGCTGGAGTGGGTCTCATCCATTAGTAGTGTAGTACATATAC 297
Qy 241 TACGAGACTCCGTGAAGGCGAGATTCACATCTCCAGAGAACCCCAACACACTG 300
Db 298 TACGAGACTCAGTGAAGGCGGATTCACATCTCCAGAGAACCCCAACACTG 357
Qy 301 TTCTTCAATGAACAGCTGAGAGCTGAGAGCTGAGACAGGCTGTCTATTACTGTGCGAG--C 357
Db 358 TGGCTGCAATGAACAGCTGAGAGCTGAGAGCTGAGAGCTGTTATTACTGTGCGAGGCC 417
Qy 358 TTGACTACAGGCTGTGACTCTCTGGGGCCAGGAGTCTGCTCAGCTCTCTCTCA 411
Db 418 CAGGCTGTTTCTTCGACTACTGGGGCCAGGAGCTGCTGCTCAGCTCTCTCTCA 471

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RESULT 3
AW402613
LOCUS      UI-HF-BKO-aax-g-05-0-UI_r1 NIH_MGC_36 Homo sapiens cDNA clone
DEFINITION IMAGE:3055305 5', mRNA sequence.
ACCESSION  AW402613
VERSION     AW402613.1 GI:6921317
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 511)
AUTHORS   NIH-MGC http://mgc.nci.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-remail.nih.gov
            Eco RI site shown at the beginning of the sequence.

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DEFINITION  UI-HF-BKO-aag-a-05-0-UI.r1 NIH MGC_36 Homo sapiens cDNA clone
IMAGE:3054608 5', mRNA sequence.
ACCESSION    AW402793
VERSION      AW402793.1  GI:6921535
KEYWORDS     EST.
SOURCE       human.
ORGANISM     Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    NIH-MGC http://mgi.nci.nih.gov/.
AUTHORS      1 (bases 1 to 447)
TITLE        National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL      Unpublished (1999)
COMMENT      Contact: Robert Strausberg, Ph.D.
              Email: cgabbs-r@mail.nih.gov
              Eco RI site shown at the beginning of the sequence.
              Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
              cDNA Library Preparation: M.B. Soares Lab
              cDNA Library Arrayed by: M.B. Soares Lab
              DNA Sequencing by: M.B. Soares Lab
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at:
              www-bio.llnl.gov/bbrp/image/image.html
              Seq primer: M13 Forward.
              Location/Qualifiers
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                /cell_line="MGC85"
                /lab_host="DH10B (LTI)"
                /note="Vector: pT73-Pac; Site_1: NotI; Site_2: Eco RI;
                Constructed from size fractionated cytoplasmic mRNA
                (0.5-1.5kb). Directionally cloned. Cells provided by Louis
                M. Staudt, Ph.D. Library preparation by Maria de Fatima
                Bonaldo, Ph.D. and M. Bento Soares, Ph.D."
BASE COUNT   97 a 110 c 137 g 103 t
ORIGIN
1 ATGGAGTTGGGCTGAGCTGGGTTTCTTCTTCTTTTGAAGGTGTCAGTGTGAG 60
2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
3 ATGGAAGTGGGCTCGGCTCGGTTTCTTCTTCTTATTTAGAGGTGTCAGTGTGAG 97
4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
5 GTGCAGCTGTGGAGTCTGGGGGCGCTTGGCAAGCCTGGGGGTCCCTGAGACTCTCC 120
6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
7 GTGCAGTTGGTGGAGTCTGGGGGAGCGCTGGTCAAGCCTGGGGGTCCCTGAGACTCTCC 157
8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
9 TGCAGAGCTCCGGGTTCAGGTTACCTTTCAATAAATACTACATGAGACTGGTCCGCCAG 180
10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
11 TGTGAGCCCTCTGGATTACG-----CTTCAATAGCTACCATGAATGGTCCGCCAG 211
12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
13 GTCCAGGCGAGGCTGAGGTGGTCTACAGTATTAGTAGTGGTATCCCACTGG 240
14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
15 GTCCAGGGAAGGCTGGAGTGGGTCTCATCATTTAGTGGTGGTACTTACATATAT 271
16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
17 TACGAGACTCTCGTGAAGGCGAGATTACCATCTCCAGAGAACGCCAACACACTG 300
18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
19 TACGAGACTAGTAGAGGCGGATTCACCATCTCCAGAGAACGCCAACACTG 331
20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
21 TTCTTTCAATGAACAGCTGAGAGCTGAGGACACGGCTGTCTATTACTGCGAGCTTG 360
22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
23 TATCTGCAATGAACAGCTGAGAGCGGAGGACACGGCTGTGTATTACTGCGAGAGAT 391
24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
25 ACTAGAGGTCTGACTCTCTGGGGCCAGGAGTCTCTGGTCCAGGCTCTCTCA 411
26 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
27 TTGCTCTACATGACGCTGGGGCAAGGGACACCGGTACCGTCTCTCTCA 442
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RESULT 6  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

AW403220 471 bp mRNA linear EST 16-FEB-2000  
UI-HF-BKO-aay-h-04-0-UI.r1 NIH MGC\_36 Homo sapiens cDNA clone  
IMAGE:3055710 5', mRNA sequence.  
AW403220  
AW403220.1 GI:6922096  
EST.  
human.

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
NIH-MGC http://mgi.nci.nih.gov/.  
1 (bases 1 to 471)  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgabbs-r@mail.nih.gov  
Eco RI site shown at the beginning of the sequence.  
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
cDNA Library Preparation: M.B. Soares Lab  
cDNA Library Arrayed by: M.B. Soares Lab  
DNA Sequencing by: M.B. Soares Lab  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Seq primer: M13 Forward.  
Location/Qualifiers

1..471  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3055710"  
/clone\_lib="NIH MGC\_36"  
/tissue\_type="lymph"  
/cell\_type="germinal center B cells"  
/cell\_line="MGC85"  
/lab\_host="DH10B (LTI)"  
/note="Vector: pT73-Pac; Site\_1: NotI; Site\_2: Eco RI;  
Constructed from size fractionated cytoplasmic mRNA  
(0.5-1.5kb). Directionally cloned. Cells provided by Louis  
M. Staudt, Ph.D. Library preparation by Maria de Fatima  
Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT  
ORIGIN

Query Match 67.2%; Score 276; DB 10; Length 471;  
Best Local Similarity 82.2%; Pred. No. 8.3e-67;  
Matches 350; Conservative 0; Mismatches 55; Indels 21; Gaps 2;  
Qy 1 ATGAGTTGGGCTGAGCTGGGTTTCTTCTTCTTTTGAAGGTGTCAGTGTGAG 60  
Db 19 ATGGAAGTGGGCTCGGCTCGGTTTCTTCTTCTTATTTAGAGGTGTCAGTGTGAG 78  
Qy 61 GTGCAGCTGTGGAGTCTGGGGGCGCTTGGCAAGCCTGGGGGTCCCTGAGACTCTCC 120  
Db 79 GTGCAGCTGTGGAGTCTGGGGGAGGCTGGTCAAGCCTGGGGGTCCCTGAGACTCTCC 138  
Qy 121 TGCAGAGCTCCGGGTTCAGGTTACCTTCAATAAATACTACATGAGACTGGTCCGCCAG 180  
Db 139 TGTGAGCCCTCTGGATTACG-----GATTCACTCAGTAGCATGATGAATGGTCCGCCAG 192  
Qy 181 GTCCAGGCGAGGCTGGAGTGGGTCTCAGTATTAGTAGTGGTATCCCACTGG 240  
Db 193 GCTCCAGGGAAGGCTGGAGTGGGTCTCATCTATTAGTAGTGGTTCATATAC 252  
Qy 241 TACGAGACTCCGTTGAAGGCGAGATTACCATCTCCAGAGAACGCCAACACACTG 300  
Db 253 TACGAGACTCAGTGAAGGCGGATTACCATCTCCAGAGAACGCCAACACTG 312  
Qy 301 TTCTTTCAATGAACAGCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCG----- 354  
| | | | | | | | | | | | | | | | | | | | | | | | | | | |



QY 121 TCGCAGCCTCCGGGTTCCAGTTCCATTCAATAACTACTACATGCACTGGTCCGCCAG 180  
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 Db 173 TGTGCAGCTCTG-----GATTCCACCTTAGCAGCTGGCATGAGCTGGTCCGCCAG 226  
 |||||  
 QY 181 GCTCAGGCGAGGGCTGAGTGGGTCTCAGTATTAGTAGTGGTATCCCACTGG 240  
 |||||  
 Db 227 GCTCCAGGAAGGGCTGAGTGGGTCTCAAGTATTAGTGGTAATGGTGGTAGCACATAC 286  
 |||||  
 QY 241 TACGCAGACTCCGTGAAGGCGAGATTCCACCATCTCCAGAGAACGCCCAACACACTG 300  
 |||||  
 Db 287 TACGCAGACTCCGTGAAGGCGGGTTCACCATCTCCAGAGAAATTCCAAGAACAGCTG 346  
 |||||  
 QY 301 TTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGGTCTATTACTGTGCGA----- 355  
 |||||  
 Db 347 TATCTGCAATGAACAGCTGAGAGCGGAGGACAGCGGTATATTTCTGTGCGAAGGT 406  
 |||||  
 QY 356 -----GCTTCACTACAGGGTCTGACTCTCGGGCCAGGGAGTCTCGGTCACTCTCC 408  
 |||||  
 Db 407 CAGCCCTTCTGACTAACTACTTTGACTACTGGGCGCAGGAAACGCTGTCACCGTCTCC 466  
 |||||  
 QY 409 TCA 411  
 |||||  
 Db 467 TCA 469

RESULT 9  
 AW401059  
 LOCUS  
 DEFINITION UI-HF-BK0-aai-f-10-0-UI.r1 NIH MGC\_36 Homo sapiens cDNA clone  
 IMAGE:3054090 5', mRNA sequence.  
 ACCESSION  
 VERSION AW403059  
 KEYWORDS  
 SOURCE EST.  
 ORGANISM  
 human.

REFERENCE  
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Eco RI site shown at the beginning of the sequence.  
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
 cDNA Library Preparation: M.B. Soares Lab  
 cDNA Library Arrayed by: M.B. Soares Lab  
 DNA Sequencing by: M.B. Soares Lab  
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html  
 Seq primer: M13 Forward

FEATURES  
 source  
 1. .456  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:3054090"  
 /clone\_lib="NIH\_MGC\_36"  
 /tissue\_type="lymph"  
 /cell\_type="germinal center B cells"  
 /lab\_host="MGC85"  
 /lab\_host="DH10B (UT1)"  
 /note="Vector: pTTT3-Pac; Site 1: NotI; Site 2: Eco RI;  
 Constructed from size fractionated cytoplasmic mRNA  
 (0.5-1.5kb). Directionally cloned. Cells provided by Louis  
 M. Staudt, Ph.D. Library preparation by Maria de Fatima  
 Bonaldo, Ph.D. and M. Bento Soares, Ph.D."  
 BASE COUNT 103 a 104 c 139 g 110 t

ORIGIN  
 Query Match 66.2%; Score 272.2; DB 10; Length 456;  
 Best Local Similarity 84.4%; Pred. No. 9.6e-66;  
 Matches 320; Conservative 0; Mismatches 53; Indels 6; Gaps 1;

QY 1 ATGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTGAAAGGTGTCCAGTGTGAG 60  
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 Db 52 ATGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTAGAAAGGTGTCCAGTGTGAG 111  
 |||||  
 QY 61 GTGAGCTGTGGAGTCTGGGGCGGCTTGCACAAAGCTCGGGGTCCCTGAGACTCTCC 120  
 |||||  
 Db 112 GTGAGCTGTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGAGGCTCCCTGAGACTCTCC 171  
 |||||  
 QY 121 TGCCAGCCTCCGGTTCAGTTCCACCTTCAATTAATCTACTACATGGAGTGGTCCGCCAG 180  
 |||||  
 Db 172 TGTGAGCCTCTG-----GATTCCACCTTCAGTAGTTATGGAATGAATCGGTCGCCAG 225  
 |||||  
 QY 181 GCTCAGGCGAGGGCTGGAGTGGTCTCAGCTATTAGTAGTGTGATGCCACATGG 240  
 |||||  
 Db 226 GCTCAGGGAAGGGCTGGAGTGGGTTTACATTAATAGTAGTGTGATGACATATAC 285  
 |||||  
 QY 241 TACGAGACTCCGTGAAGGCGAGATTCCACCATCTCCAGAGAGAACGCCCAACACACTG 300  
 |||||  
 Db 286 TACGAGACTCTGTGAAGGCGCGATTCCACCATCTCCAGAGACACGCCAAGAACTCACTG 345  
 |||||  
 QY 301 TTCTTCAATGAACAGCTGAGAGCTGAGAGCAGGCTGTCTATTACTGTGCGAGCTTG 360  
 |||||  
 Db 346 TATCTGCAATGAAGAGCCTGAGAGCGGAGGACACGCGCTGTTATTACTGTGCGAGCCAT 405  
 |||||  
 QY 361 ACTACAGGGTCTGACTCCT 379  
 |||||  
 Db 406 ATACGAGCTGACGACT 424

RESULT 10  
 AW401386  
 LOCUS  
 DEFINITION UI-HF-BK0-aau-h-03-0-UI.r1 NIH\_MGC\_36 Homo sapiens cDNA clone  
 IMAGE:3055324 5', mRNA sequence.  
 ACCESSION  
 VERSION AW401386  
 KEYWORDS  
 SOURCE EST.  
 ORGANISM  
 human.

REFERENCE  
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Eco RI site shown at the beginning of the sequence.  
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
 cDNA Library Preparation: M.B. Soares Lab  
 cDNA Library Arrayed by: M.B. Soares Lab  
 DNA Sequencing by: M.B. Soares Lab  
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html  
 Seq primer: M13 Forward

FEATURES  
 source  
 1. .582  
 /organism="Homo sapiens"  
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 /clone="IMAGE:3055324"  
 /clone\_lib="NIH\_MGC\_36"  
 /tissue\_type="lymph"  
 /cell\_type="germinal center B cells"  
 /lab\_host="MGC85"  
 /lab\_host="DH10B (LTR1)"  
 /note="Vector: pTTT3-Pac; Site 1: NotI; Site 2: Eco RI;  
 Constructed from size fractionated cytoplasmic mRNA  
 (0.5-1.5kb). Directionally cloned. Cells provided by Louis  
 M. Staudt, Ph.D. Library preparation by Maria de Fatima  
 Bonaldo, Ph.D. and M. Bento Soares, Ph.D."  
 BASE COUNT 117 a 155 c 169 g 141 t



/note="Vector: pT7T3-Pac; Site 1: NotI; Site 2: Eco RI;  
Constructed from size fractionated cytoplasmic mRNA  
(0.5-1.5kb). Directionally cloned. Cells provided by Louis  
M. Staudt, Ph.D. Library preparation by Maria de Fatima  
Bonaldio, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT 93 a 116 c 131 g 103 t

ORIGIN

Query Match 65.9%; Score 271; DB 10; Length 443;  
Best Local Similarity 81.6%; Pred. No. 2.1e-65;  
Matches 345; Conservative 0; Mismatches 60; Indels 18; Gaps 2;

Qy 1 ATGAGTTTGGGCTGAGCTGGGTTTCTTGTTCCTTTTGAAGGTGTCAGTGTGAG 60  
|||||  
Db 25 ATGGAACGGGCTCGCTGGGTTTCTTGTTCCTTTTGAAGGTGTCAGTGTGAG 84  
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Qy 61 GTGAGCTGTGAGTCTGGGGGGCTTGGCAAGCCTGGGGGTCTCTGAGACTCTCC 120  
Db 85 GTGAGCTGTGAGTCTGGGGGGCTTGGCAAGCCTGGGGGTCTCTGAGACTCTCC 144  
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Qy 121 TCGCAGCTCTCGGGTTCAAGTTTCACTTCAATACTACTACAGCTGGGTCCGCCAG 180  
Db 145 TGTGAGCTCTG-----GATTCACTTCACTACTATACCTGAAGTGGGTCCGCCAG 198  
|||||

Qy 181 GTCCAGGCGAGGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGAATCCCATG 240  
Db 199 GTCCAGGCGAGGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGAATCCCATG 258  
|||||

Qy 241 TACGAGACTCGTGAAGGGAGATTCACCATCTTCAGAGAGAACGCCAACACACTG 300  
Db 259 TACGAGACTCAGTGAAGGGCGATTACCATCTTCAGAGAGAACGCCAACACACTG 318  
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Qy 301 TTTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGTGTCTATTACTGTGCGAGCTG 360  
Db 319 TATCTGCAGATGAACAGCTGAGAGCGGAGACACCGTGTCTATTACTGTGCGAGAGA 378  
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Qy 361 ACTACAGG-----TCTGACTCTCGGGCGAGGAGTCTGTGTCAACCGTCTCC 408  
Db 379 GTTCCATGTTTCAGTTCTACTTTGACTACTGGGCGAGGAAACCTGTGTCAACCGTCTCC 438  
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Qy 409 TCA 411  
Db 439 TCA 441

RESULT 13  
AW408304  
LOCUS  
DEFINITION  
UI-HF-BK0-abj-e-10-0-UI.r1 NIH\_MGC\_36 Homo sapiens cDNA clone  
IMAGE:3056371 5', mRNA sequence.  
ACCESSION  
AW408304  
VERSION  
AW408304.1 GI:6927361  
KEYWORDS  
EST.  
SOURCE  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 440)  
NIH-MGC http://mgi.nci.nih.gov/.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Eco RI site shown at the beginning of the sequence.  
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
cDNA Library Preparation: M.B. Soares Lab.  
cDNA Library Arrayed by: M.B. Soares Lab  
DNA Sequencing by: M.B. Soares Lab  
DNA Sequencing by: M.B. Soares Lab  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Seq primer: M13 Forward.  
Location/Qualifiers

FEATURES

1. .440  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3056371"  
/clone\_lib="NIH\_MGC\_36"  
/tissue\_type="lymph"  
/cell\_type="germinal center B cells"  
/cell\_line="MGC85"  
/lab\_hosts="DH10B (LTI)"  
/note="Vector: pT7T3-Pac; Site 1: NotI; Site 2: Eco RI;  
Constructed from size fractionated cytoplasmic mRNA  
(0.5-1.5kb). Directionally cloned. Cells provided by Louis  
M. Staudt, Ph.D. Library preparation by Maria de Fatima  
Bonaldio, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT 99 a 98 c 134 g 109 t

ORIGIN

Query Match 65.7%; Score 270; DB 10; Length 440;  
Best Local Similarity 87.1%; Pred. No. 3.9e-65;  
Matches 310; Conservative 0; Mismatches 40; Indels 6; Gaps 1;

Qy 1 ATGAGTTTGGGCTGAGCTGGGTTTCTTGTTCCTTTTGAAGGTGTCAGTGTGAG 60  
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Db 62 ATGAGTTTGGGCTGAGCTGGGTTTCTTGTTCCTTTTGAAGGTGTCAGTGTGAG 121  
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Qy 61 GTGAGCTGTGAGTCTGGGGGGCTTGGCAAGCCTGGGGGTCTCTGAGACTCTCC 120  
Db 122 GTGAGCTGTGAGTCTGGGGGGCTTGGCAAGCCTGGGGGTCTCTGAGACTCTCC 181  
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Qy 121 TCGCAGCTCTCGGGTTCAAGTTTCACTTCAATACTACTACAGCTGGGTCCGCCAG 180  
Db 182 TGTGAGCTCTG-----GATTCACTTCACTACTATACCTGAAGTGGGTCCGCCAG 235  
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Qy 181 GCTCAGGCGAGGGCTGGAGTGGGTCTCAGTATTAGTAGTGGTGAATCCCATG 240  
Db 236 GCTCAGGCGAGGGCTGGAGTGGGTCTCAGTATTAGTAGTGGTGAATCCCATG 295  
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Qy 241 TACGAGACTCGTGAAGGGAGATTCACCATCTTCAGAGAGAACGCCAACACACTG 300  
Db 296 TACGAGACTCTGTAAGGGCGGATTACCATCTTCAGAGAGAACGCCAACACTG 355  
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Qy 301 TTTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGTGTCTATTACTGTGCGAG 356  
Db 356 TATCTGAAATGAACAGCTGAGAGCGGAGACAGCGTGTCTATTACTGTGCGAG 411  
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RESULT 14  
AW403862  
LOCUS  
DEFINITION  
UI-HF-BK0-abo-a-12-0-UI.r1 NIH\_MGC\_36 Homo sapiens cDNA clone  
IMAGE:3056926 5', mRNA sequence.  
ACCESSION  
AW403862  
VERSION  
AW403862.1 GI:6923015  
KEYWORDS  
EST.  
SOURCE  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 487)  
NIH-MGC http://mgi.nci.nih.gov/.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-r@mail.nih.gov  
Eco RI site shown at the beginning of the sequence.  
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.  
cDNA Library Preparation: M.B. Soares Lab  
cDNA Library Arrayed by: M.B. Soares Lab  
DNA Sequencing by: M.B. Soares Lab  
DNA Sequencing by: M.B. Soares Lab  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/bbrp/image/image.html  
Seq primer: M13 Forward.









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FT      /note= "encodes CDR 2 region"
FT      358..378
FT      /*tag= f
FT      /note= "encodes CDR 2 region"
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PN      WO9837099-A1.
XX
PD      27-AUG-1998.
XX
PF      17-FEB-1998; 98WO-US02253.
XX
PR      05-FEB-1998; 98US-0803085.
PR      20-FEB-1997; 97US-0803085.
XX
PA      (IDEC-) IDEC PHARM CORP.
PA      (SEK) SEIKAGAKU CORP.
XX
PI      Klotzer WS, Nakamura T, Reff ME,
XX      WPI; 1998-467495/40.
XX      P-PSDB; AAW70380.
XX
PT      New anti-human CD23 monoclonal antibody - used for inhibiting IgE
PT      expression to treat or prevent allergic, inflammatory and
PT      auto:immune conditions
XX
PS      Example 1; Pages 108-110; 146pp; English.
XX
CC      The present sequence represents a DNA sequence encoding the heavy
CC      chain variable region of primate monoclonal antibody anti-human CD23 5E8.
CC      The invention provides primate monoclonal antibodies which specifically
CC      bind human CD23, the low affinity receptor for IgE (FcεRI/CD23),
CC      and comprise either a human gamma-1 or human gamma-3 constant region
CC      that binds to human Fc gamma receptors and inhibits IgE expression.
CC      The monoclonal antibodies of the invention are claimed to be useful
CC      for inhibiting induced IgE production for treating or preventing
CC      allergic, inflammatory and autoimmune conditions e.g. allergic rhinitis
CC      conjunctivitis, autoimmune haemolytic anaemia, etc.
XX
SQ      Sequence 411 BP; 80 A; 102 C; 130 G; 99 T; 0 other;

Query Match      99.2%; Score 407.8; DB 19; Length 411;
Best Local Similarity 99.5%; Pred. No. 4.8e-105;
Matches 409; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1  ATGGAGTTTGGCTGAGCTGGGTTTTCCTTGTTCCTCTTTTGAAGGTTCCAGTGTGAG 60
Db      |||
QY      61  GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTTGGGGGTCCCTGAGACTCTCC 120
Db      |||
QY      61  GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTTGGGGGTCCCTGAGACTCTGG 120
Db      |||
QY      121  TCGCAGCTCCGGGTTTCAAGTTTCACTTCAATACTACTATGAGACTGGGTCCGCCAG 180
Db      |||
QY      121  TCGCAGCTCCGGGTTTCAAGTTTCACTTCAATACTACTATGAGACTGGGTCCGCCAG 180
Db      |||
QY      181  GCTCAGGCGAGGGCTGAGTGGGTCTCACCTATTAGTAGTGGTATCCCATGG 240
Db      |||
QY      181  GCTCAGGCGAGGGCTGAGTGGGTCTCACCTATTAGTAGTGGTATCCCATGG 240
Db      |||
QY      241  TACGCAGACTCCGTTGAAGGCGAGATTACCATCTCCAGAGAGAACGCCAACAACTG 300
Db      |||
QY      241  TACGCAGACTCCGTTGAAGGCGAGATTACCATCTCCAGAGAGAACGCCAACAACTG 300
Db      |||
QY      301  TTCTTCAATGAACAGCCTGAGAGCTGAGGACAGGCTGTATTACTGTGCGAGCTTG 360
Db      |||
QY      301  TTCTTCAATGAACAGCCTGAGAGCTGAGGACAGGCTGTATTACTGTGCGAGCTTG 360
Db      |||
QY      361  ACTACAGGCTGTACTCTCTGGGGCCAGGGAGTCTGGTCCACGCTCTCTCA 411
Db      |||
QY      361  ACTACAGGCTGTACTCTCTGGGGCCAGGGAGTCTGGTCCACGCTCTCTCA 411
Db      |||
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```
RESULT 2
AAV61794
ID  AAV61794 standard; DNA; 19035 BP.
XX
AC  AAV61794;
XX
DT  07-JUN-1999 (first entry)
XX
DE  Traget plasmid Mandy containing anti-CD23 gene.
XX
KW  Mandy; target plasmid; gene integration; gene amplification;
KW  homologous recombination; vector; neomycin phosphotransferase;
KW  neo gene; selectable marker; immunoglobulin; CD23; 5E8; human; ss.
XX
OS  Chimeric - Mus sp.
OS  Chimeric - Escherichia coli.
OS  Chimeric - Baculovirus.
OS  Chimeric - Cytomegalovirus.
OS  Chimeric - Rhesus macaque polyoma virus.
OS  Chimeric - Photinus sp.
OS  Chimeric - Salmonella typhimurium.
OS  Chimeric - Homo sapiens.
XX
FH  Key Location/Qualifiers
FT  misc_feature 361
FT  /*tag= a
FT  /note= "this base represents a nucleotide missing
FT  from the sequence given in the
FT  specification. It is included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
FT  misc_feature 721
FT  /*tag= b
FT  /note= "this base represents a nucleotide missing
FT  from the sequence given in the
FT  specification. It is included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
FT  misc_feature 2941
FT  /*tag= c
FT  /note= "this base represents a nucleotide missing
FT  from the sequence given in the
FT  specification. It is included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
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FT  /note= "this base represents a nucleotide missing
FT  from the sequence given in the
FT  specification. It is included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
FT  misc_feature 4261
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FT  /note= "this base represents a nucleotide missing
FT  from the sequence given in the
FT  specification. It is included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
FT  misc_feature 4621..4622
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FT  /note= "these bases represent nucleotides missing
FT  from the sequence given in the
FT  specification. They are included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
FT  misc_feature 8161
FT  /*tag= g
FT  /note= "this base represents a nucleotide missing
FT  from the sequence given in the
FT  specification. It is included to
FT  maintain the nucleotide numbering in the
FT  specification for this sequence"
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QY 301 TTCTTCAAATGAACAGCCTGAGAGCTGAGGACAGCGGTGCTATTACTGTGCGAGCTTG 360-
Db 9732 TTCTTCAAATGAACAGCCTGAGAGCTGAGGACAGCGGTGCTATTACTGTGCGAGCTTG 9791
QY 361 ACTACAGGCTGACTCTCTGGGGCCAGGAGTCTTGCTCACCCTCTCTCTCA 411
Db 9792 ACTACAGGCTGACTCTCTGGGGCCAGGAGTCTTGCTCACCCTCTCTCTCA 9842

RESULT 3
AAH41153
ID AAH41153 standard; DNA; 458 BP.
XX
AC AAH41153;
XX
DT 22-AUG-2001 (first entry)
XX
DE Human coding sequence SEQ ID 3.
XX
KW Human; antiarthritic; cardiant; monoclonal antibody; keloid; arthritis;
KW Tumour Growth Factor-beta II receptor; TGF-beta II receptor; atopy;
KW signal transduction inhibition; tissue fibrosis; atherosclerosis; ds.
XX
OS Homo sapiens.
XX
PN WO200136642-A1.
XX
PD 25-MAY-2001.
XX
PF 17-NOV-2000; 2000WO-JP08129.
XX
PR 18-NOV-1999; 99JP-0328681.
XX
PR 08-NOV-2000; 2000JP-0340216.
XX
PA (N1SB ) JAPAN TOBACCO INC.
XX
PI Sakamoto S, Kamada M;
XX
WPI: 2001-343825/36.
XX
P-PSDB; AAB99111.
XX
Human monoclonal antibodies recognizing human TGF-beta II receptor,
PT useful for treating TGF-beta associated diseases such as tissue
PT fibrosis -
XX
PS Example 12; Page 94-95; 118pp; Japanese.
XX
CC The present invention relates to novel human monoclonal antibodies. The
CC antibodies can bind to human Tumour Growth Factor-beta (TGF-beta) II
CC receptor, resulting in the inhibition of the signal transduction of human
CC TGF-beta into cells. The antibodies can be used for the prevention and
CC treatment of diseases associated with the production of TGF-beta, such as
CC tissue fibrosis in the lung, liver, skin, kidney or other tissues,
CC atherosclerosis, atopy, keloid and arthritis. The present sequence was
CC used in the present invention.
XX
SQ Sequence 458 BP; 92 A; 121 C; 139 G; 106 T; 0 other;

Query Match 72.1%; Score 296.2; DB 22; Length 458;
Best Local Similarity 84.4%; Pred. No. 1.3e-73;
Matches 347; Conservative 0; Mismatches 58; Indels 6; Gaps 1;

QY 1 ATGGAGTTTGGGCTGAGCTGGGCTTTCTTGTTCTCTTTTGAAGGTTCCAGTGTGAG 60
Db 1 ATGGAACTGGGGCTCGCTGGGTTTCTTGTTGCTATTATTAAGAGGTTCCAGTGTGAG 60
QY 61 GTGCAGCTGGTGGAGTCTGGGGCCGCTTTGGCAAGCCTTGGGGGTCTCCTGAGACTCTCC 120
Db 61 GTGCAGCTGGTGGAGTCTGGGGAGGCGCTGGTCAAGCCTGGGGGTCTCCTGAGACTCTCC 120
QY 121 TCGCAGCCTCCGGGTTAGGTTACCTTCAATACTACTACATGAGTGGTCCGCCAG 180
Db 121 TGTGAGCCTCTG-----GATTCACCTTCAGTAGCTTTAGCATGAAGTGGGTCCGCCAG 174
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```
QY 181 GCTCAGGCGAGGGCTGGAGTGGGTCTCAGTATTAGTAGTAGTGGTGATCCACATGG 240
Db 175 GCTCAGGGAAGGGCTGGAGTGGGTCTCATCCATTAGTAGTAGTAGTATATATAC 234
QY 241 TACCAGACTCCGTGAAGGGCAGATTACCATCTCCAGAGAGAAACGCCAACACACTG 300
Db 235 TACACAGACTCAGTGAAGGGCCGATTACCATCTCCAGAGACAAACGCCAAGAACTCACTG 294
QY 301 TTCTTCAAATGAACAGCCTGAGAGCTGAGGACAGCGGTGCTATTACTGTGCGAGCTTG 360
Db 295 TATCTGCAAAATGAACAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGG 354
QY 361 ACTACAGGCTGACTCTCTGGGGCCAGGAGTCTTGCTCACCCTCTCTCTCA 411
Db 355 TACTGGGGTTTGACTACTAGGGCCAGGGAACCTGGTCACCGTCTCTCTCA 405

RESULT 4
AAS22533
ID AAS22533 standard; cDNA; 1710 BP.
XX
AC AAS22533;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human cDNA encoding a novel human protein #99.
XX
KW Human; novel protein; ss; Antianemic; osteopathic; antiinflammatory;
KW immunomodulatory; cytostatic; neuroprotective; vulnery; nootropic;
KW anticonvulsant; antiarthritic; cerebroprotective; antifungal; antiviral;
KW antibacterial; antiallergic; dermatological; haemostatic; antiasthmatic;
KW thrombolytic; immunogen; antibody; gene therapy; neurological disorder;
KW Parkinson's disease; inflammatory disorder; cancer; asthma; osteoporosis;
KW tissue regeneration; immune disorder.
XX
OS Homo sapiens.
XX
WPI: 200155437-A2.
XX
PD 02-AUG-2001.
XX
PF 25-JAN-2001; 2001WO-US02623.
XX
PR 25-JAN-2000; 2000US-0491404.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
WPI: 2001-451939/48.
XX
P-PSDB; AAU14228.
XX
Isolated polypeptides useful for treating anti-inflammatory diseases,
PT nervous system disorders, and for regenerating bone and cartilage -
XX
PS Claim 1; Page 306-308; 894pp; English.
XX
CC The invention relates to polynucleotides encoding novel human
CC proteins or their active domains. The polypeptides, polynucleotides and
CC antibodies raised against the polypeptides are used in a method of
CC treatment of a mammal and prevention of disorders caused by the aberrant
CC protein expression or activity. The polypeptides can be used as
CC molecular weight markers, food supplements, and in antibody production.
CC The polypeptides are used to identify compounds which bind to the
CC polypeptides. Polynucleotides of the invention are used as probes and
CC primers, for sequencing, for chromosome or gene mapping, in the
CC production of recombinant proteins, and in generating anti-sense DNA or
CC RNA and in gene therapy. Polypeptides of the invention can be used to
CC target drugs to a tumour, in assays to determine biological activity, to
CC raise antibodies/elicit an immune response, to determine quantitative
CC protein levels, as tissue markers, and to isolate receptors or ligands.
CC Polypeptides of the invention may also be useful in treating platelet
```



```

RESULT 6
AAV24243
ID AAV24243 standard; cDNA to mRNA; 411 BP.
XX
AC AAV24243;
XX
DT 03-SEP-1998 (first entry)
XX
DE Chimeric antibody fragment against hPTRP encoding cDNA SEQ ID NO:58.
XX
KW Chimeric; antibody; human parathormone related peptide; hPTRP; mouse;
KW L chain; hypercalcaemia; cancer; malignant lymphoma; CDR;
KW hypophosphemia; pathogen; vitamin D resistance; V region; C region;
KW humanised; ds.
XX
OS Synthetic.
OS Chimeric - Mus sp.
OS Chimeric - Homo sapiens.
XX
FH Key Location/Qualifiers
CDS 1..411
FT /*tag= a
FT /note= "no stop codon given"
FT sig_peptide 1..57
FT /*tag= b
FT mat_peptide 58..411
FT /*tag= c
XX
PN WO9813388-A1.
XX
XX
XX 02-APR-1998.
XX
XX 24-SEP-1997; 97WO-JP03382.
XX
XX 24-JUL-1997; 97JP-0214168.
XX
XX 26-SEP-1996; 96JP-0255196.
XX
XX (CHUS ) CHUGAI SEIYAKU KK.
XX
XX Sato K, Wakahara Y, Yabuta N;
XX
XX WPI; 1998-230640/20.
XX
XX P-PSDB; AAW57603.
XX
XX New chimeric antibodies against human parathormone related
XX peptide(s) - useful for, e.g. treatment of hypercalcaemia and other
XX disorders caused by malignant neoplasm(s)
XX
XX Claim 60; Page 122-123; 182pp; Japanese.
XX
XX New antibodies have been developed which are specific for human
XX parathormone related peptides (hPTRP). The antibodies comprise chimeric
XX L and/or H chains, where the C region is of human and L region of mouse,
XX origin. The present sequence encodes a specifically claimed region of
XX an antibody of the invention. Host cells, transformed with vectors
XX containing DNA encoding antibodies of the invention, can be used to
XX produce the antibodies. The antibodies may be used to treat
XX hypercalcaemia, especially that due to a malignancy, e.g. cancers of
XX pancreas, lung, throat, larynx, tongue, gum, oesophagus, stomach, liver,
XX breast, kidney, bladder, womb or prostate or malignant lymphoma. They
XX may also be used for treatment of hypophosphemia such as that due to
XX pathogens or to vitamin D resistance.
XX
XX Sequence 411 BP; 82 A; 98 C; 128 G; 103 T; 0 other;
XX
Query Match 65.8%; Score 270.6; DB 19; Length 411;
Best Local Similarity 81.8%; Pred. No. 2e-66;
Matches 341; Conservative 0; Mismatches 64; Indels 12; Gaps 2;
XX
XX 1 ATGGAGTTGGCTGAGCTGGGTTTCTTGTCTTTTGAAGGTTCCAGTGTGAG 60
XX |||||
XX 1 ATGGGGTTGGCTGAGCTGGGTTTCTTGTCTTTTGAAGGTTCCAGTGTGAG 60

```

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61 GTGCAGCTGGTGGAGTCTGGGGGCGCTTGCAAGCCTGGGGGTCCTGAGACTCTCC 120
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61 GTGCAGCTGGTGGAGTCTGGGGGCGCTGGTCCAGCCTGGGAGTCCCTGAGACTCTCC 120
|||||
121 TGCGACGCTCCGGTTTCAGGTTTCACTTCAATNACTACTACATGAGACTGGTCCGCCAG 180
|||||
121 TGTGACGCTCTG-----GATTCACTTCAGTAGCTATGGCATGTCTTGGGTCCGCCAG 174
|||||
181 GCTCCAGGCGAGGGCTGGAGTGGTCTCAGTATTTAGTAGTAGTATGATCCACATGG 240
|||||
175 GCTCCAGGCGAAGGGCTGGAGTGGTGGCAACCAATTAGTAGTGGTGTACACCTAC 234
|||||
241 TACCACAGCTCCGTGAAGGCGAGATTCAACCATCTCCAGAGAGAACGCCAACACACACTG 300
|||||
235 TATCCAGACAGTGTGAAGGGCGGATTCACTATCTCCAGAGACAAATTCAGAACACGCTG 294
|||||
301 TTTCTTCAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGTTG 360
|||||
295 TATCTGCAATGAACAGCCTGAGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGACAG 354
|||||
361 ACTACAGGCTCTGAC-----TCTGGGGCGAGGAGTCTCTGTCACGGTCTCTCTCA 411
|||||
355 ACTACTATGACTTACTTTTGTCTTACTTGGGGCGAGGAAACCTGGTCACTCTCTCTCA 411
|||||

RESULT 7
AAV00116
ID AAV00116 standard; cDNA to mRNA; 411 BP.
XX
AC AAV00116;
XX
XX 14-APR-1999 (first entry)
XX
XX Human antibody heavy chain coding sequence.
XX
XX Human; parathyroid hormone related protein; PTHrP; cachexia; cancer;
XX inhibitor; humanised; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
CDS 1..411
FT /*tag= a
FT /note= "no stop codon given"
XX
XX WO9851329-A1.
XX
XX 19-NOV-1998.
XX
XX 13-MAY-1998; 98WO-JP021116.
XX
XX 18-JUL-1997; 97JP-0194445.
XX
XX 15-MAY-1997; 97JP-0125505.
XX
XX (CHUS ) CHUGAI SEIYAKU KK.
XX
XX Ishii K, Sato K, Tunenari T;
XX
XX WPI; 1999-070101/06.
XX
XX P-PSDB; AAW89635.
XX
XX Inhibitors of binding of parathyroid hormone related peptide to its
XX receptor - useful for, e.g. treatment of cachexia arising from
XX cancer or other diseases
XX
XX Example 4; Page 83-84; 125pp; Japanese.
XX
XX The present invention describes compositions for the treatment of
XX cachexia containing a substance which inhibits the binding of a
XX parathyroid hormone related peptide (PTHrP) to its receptor, as an
XX active component. This substance may be an antagonist to the receptor,
XX or an antibody (preferably monoclonal) or antibody fragment.

```



```
XX PD 07-SEP-2001.
XX PF 30-AUG-2000; 2000WO-JP05886.
XX PR 28-FEB-2000; 2000JP-0052414.
XX PA (CHUS ) CHUGAI SEIYAKU KK.
XX PI Saito H, Tsunenari T, Onuma E, Sato K;
XX WPI; 2001-550131/61.
XX DR P-PSDB; AAG67112.
XX PT Tissue decomposition inhibitor that prevents parathyroid hormone
XX associated proteins from binding to its receptor -
XX PS Example 1; Page 107-108; 132pp; Japanese.
XX CC The specification describes a tissue decomposition inhibitor, which
XX comprises a substance that inhibits peptides associated with
XX parathyroid hormone (PTH) from binding with their receptor. The method
XX is used to inhibit tissue decomposition caused by cancer cachexia,
XX septicemia, heavy external injury or muscular dystrophy, and for
XX treating patients with elevated cytokine (Interleukin-6, Granulocyte
XX colony stimulating factor, Interleukin-11 and Leukemia inhibitory
XX factor) levels. It may also be used for preventing weight loss caused
XX by cancer cachexia. The present sequence encodes a protein, which is
XX used in the course of the invention.
XX SQ Sequence 411 BP; 82 A; 98 C; 128 G; 103 T; 0 other;
XX Query Match 65.8%; Score 270.6; DB 22; Length 411;
XX Best Local Similarity 81.8%; Pred. No. 2e-66;
XX Matches 341; Conservative 0; Mismatches 64; Indels 12; Gaps 2;
QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTTGTCTCTTTTGAAGGTTCCAGTGTGAG 60
DB 1 ATGGGGTTTGGGCTGAGCTGGGTTTCTCTGTTGCTCTTTTAAGAGGTGCCAGTGTGAG 60
QY 61 GTGCAGCTGGTGGAGTCTGGGGGGCGCTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120
DB 61 GTGCAGCTGGTGGAGTCTGGGGGGCGCTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120
QY 121 TCGCAGAGCTCCGGGTTTCAGGTTTCACTTCAATAACTACTGACTGGGTCCGCCAG 180
DB 121 TGTGAGAGCTCTG-----GATTACCTTCAGTAGCTATGGCATGTCTTGGTCCGCCAG 174
QY 181 GTCCAGGCGAGGGCTGGAGTGGGTCTCACGTATTAGTAGTGGTATCCCACTGG 240
DB 175 GCTCCAGGCAAGGGCTGGAGTGGGTGGCAACCATTAGTGGTGGTAGTTACACCTAC 234
QY 241 TACGAGAGCTCCGTGAAGGCGAGATTACCATCTCCAGAGAGAACGCCAACACACTG 300
DB 235 TATCCAGACAGTGTGAAGGGCGATTACCATCTCCAGAGACAAATCCAAAGAACACGCTG 294
QY 301 TTCTTCTCAATGAACAGCTGAGAGTGGAGACAGCGGTCTATTACTGTGCGAGCTTG 360
DB 295 TATCTGCAATGAACAGCTGAGAGTGGAGTGGGTGGCAACCATTAGTGGTGGTAGTTACACCTAC 234
QY 361 ACTACAGGCTGTGAC-----TCCTGGGGCCAGGGAGTCCCTGGTCAACCGTCTCCTCA 411
DB 355 ACTACTATGACTTACTTTGCTTACTTGGGGCCAGGGAAACCCCTGGTCAACCGTCTCCTCA 411
RESULT 10
ID AAH74285
XX AAH74285 standard; DNA; 411 BP.
XX AC AAH74285;
XX XX
DT 15-OCT-2001 (first entry)
XX
```

```
DE Nucleotide sequence of a human polypeptide.
XX Parathyroid hormone-associated peptide; PThrP; dental disease; ss.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX CDS 1..411
XX FT /*tag= a
XX FT /note= "no termination codon given"
XX FT mat_peptide 58..411
XX FT /*tag= b
XX PN WO200154725-A1.
XX PD 02-AUG-2001.
XX PF 14-DEC-2000; 2000WO-JP08875.
XX PR 25-JAN-2000; 2000JP-0083034.
XX PA (CHUS ) CHUGAI SEIYAKU KK.
XX PI Kato A, Suzuki M, Sugimoto T;
XX WPI; 2001-465459/50.
XX DR P-PSDB; AAG63394.
XX PT Parathyroid hormone-associated peptide binding inhibitors useful for
XX treating dental disease -
XX PS Disclosure; Page 113-114; 140pp; Japanese.
XX CC The specification describes a treatment for dental diseases. The
XX treatment comprises a substance that inhibits binding between
XX parathyroid hormone-associated peptide and its receptor. The
XX present sequence encodes a human protein, which is used in the
XX course of the invention.
XX SQ Sequence 411 BP; 82 A; 98 C; 128 G; 103 T; 0 other;
XX Query Match 65.8%; Score 270.6; DB 22; Length 411;
XX Best Local Similarity 81.8%; Pred. No. 2e-66;
XX Matches 341; Conservative 0; Mismatches 64; Indels 12; Gaps 2;
QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTTGTCTCTTTTGAAGGTTCCAGTGTGAG 60
DB 1 ATGGGGTTTGGGCTGAGCTGGGTTTCTCTGTTGCTCTTTTAAGAGGTGCCAGTGTGAG 60
QY 61 GTGCAGCTGGTGGAGTCTGGGGGGCGCTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120
DB 61 GTGCAGCTGGTGGAGTCTGGGGGGCGCTTGGTCCAGCTGGGAGTCCCTGAGACTCTCC 120
QY 121 TGCGAGAGCTCCGGGTTTCAGGTTTCACTTCAATAACTACTACATGAGTGGGTCCGCCAG 180
DB 121 TGTGAGAGCTCTG-----GATTACCTTCAGTAGCTATGGCATGTCTTGGTCCGCCAG 174
QY 181 GCTCCAGGCGAGGGCTGGAGTGGGTCTCACGTATTAGTAGTGGTATCCCACTGG 240
DB 175 GCTCCAGGCAAGGGCTGGAGTGGGTGGCAACCATTAGTGGTGGTAGTTACACCTAC 234
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DB 235 TATCCAGACAGTGTGAAGGGCGAGTTACCATCTCCAGAGACAAATCCAAAGAACACGCTG 294
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DB 295 TATCTGCAATGAACAGCTGAGAGTGGAGTGGGTGGCAACCATTAGTGGTGGTAGTTACACCTAC 234
QY 361 ACTACAGGCTGTGAC-----TCCTGGGGCCAGGGAGTCCCTGGTCAACCGTCTCCTCA 411
DB 355 ACTACTATGACTTACTTTGCTTACTTGGGGCCAGGGAAACCCCTGGTCAACCGTCTCCTCA 411
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Qy 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAGAACGCCAACACACTG 300
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Db 235 TATCCAGACAGTGTGAAGGGCGATTACCATCTCCAGAGACAATTCCAAGNACACGCTG 294
   || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 301 TTTCTTCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360
   || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 295 TATCTGCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGACAG 354
   || ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 361 ACTACAGGGTCTGAC-----TCCTGGGGCCAGGGAGTCTCGTCAACCGTCTCCTCA 411
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 355 ACTACTATGACTTACTTTGCTTACTGGGGCCAGGGAACCCCTGGTCACCGTCTCCTCA 411
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Job time : 157.369 secs

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Software version 5.1.6

us-09-292-053-7.rnpb

Run on July 15, 2003, 09:43:13 : Search time 106.385 Seconds

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Sequence 411

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;
;
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..411
;
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 58..411
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-103-686-4

Query Match          99.2%; Score 407.8; DB 9; Length 411;
Best Local Similarity 99.5%; Pred. No. 1.2e-117;
Matches 409; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGAGTTTGGCTGAGCTGGGTTTCTCTTTGTTCTCTTTTGAAGGTCTCCAGTGTGAG 60
Db 1 ATGGAGTTTGGCTGAGCTGGGTTTCTCTTTGTTCTCTTTTGAAGGTCTCCAGTGTGAG 60

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Db 61 GTGCAGCTGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCTCGAGACTCTGG 120

QY 121 TCGCAGCCTCCGGTTTCAAGTTTCACTTCAATAACTACTATGAGCTGGTCCGCCAG 180
Db 121 TCGCAGCCTCCGGTTTCAAGTTTCACTTCAATAACTACTATGAGCTGGTCCGCCAG 180

QY 181 GCTCAGGCGAGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGTATCCACATGG 240
Db 181 GCTCAGGCGAGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGTATCCACATGG 240

QY 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAACGCCAACACACTG 300
Db 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAACGCCAACACACTG 300

QY 301 TTTCTTCAAAATGAACAGCTGAGAGCTGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360
Db 301 TTTCTTCAAAATGAACAGCTGAGAGCTGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360

QY 361 ACTACAGGCTGTGACTCTCTGGGGCCAGGAGTCTCGTCCACCTCTCTCA 411
Db 361 ACTACAGGCTGTGACTCTCTGGGGCCAGGAGTCTCGTCCACCTCTCTCA 411
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RESULT 2
US-09-019-441-4
; Sequence 4, Application US/09019441
; Publication No. US2003008621A1
; GENERAL INFORMATION:
; APPLICANT: REFF, Mitchell E.
; NAKAMURA, Takehiko
; KLOETZER, William S.
; TITLE OF INVENTION: GAMMA-1 ANTI-HUMAN CD23 MONOCLONAL
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, LLP
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/019,441
; FILING DATE: 05-Feb-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/803,085
```

```
;
;
; FILING DATE: 20-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-532
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..411
;
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 58..411
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-019-441-4

Query Match          99.2%; Score 407.8; DB 9; Length 411;
Best Local Similarity 99.5%; Pred. No. 1.2e-117;
Matches 409; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGGAGTTTGGCTGAGCTGGGTTTCTCTTTGTTCTCTTTTGAAGGTCTCCAGTGTGAG 60
Db 1 ATGGAGTTTGGCTGAGCTGGGTTTCTCTTTGTTCTCTTTTGAAGGTCTCCAGTGTGAG 60

QY 61 GTGCAGCTGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCTCGAGACTCTCC 120
Db 61 GTGCAGCTGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCTCGAGACTCTGG 120

QY 121 TCGCAGCCTCCGGTTTCAAGTTTCACTTCAATAACTACTATGAGCTGGTCCGCCAG 180
Db 121 TCGCAGCCTCCGGTTTCAAGTTTCACTTCAATAACTACTATGAGCTGGTCCGCCAG 180

QY 181 GCTCAGGCGAGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGTATCCACATGG 240
Db 181 GCTCAGGCGAGGCTGGAGTGGGTCTCAGCTATTAGTAGTGGTGTATCCACATGG 240

QY 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAACGCCAACACACTG 300
Db 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAACGCCAACACACTG 300

QY 301 TTTCTTCAAAATGAACAGCTGAGAGCTGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360
Db 301 TTTCTTCAAAATGAACAGCTGAGAGCTGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360

QY 361 ACTACAGGCTGTGACTCTCTGGGGCCAGGAGTCTCGTCCACCTCTCTCA 411
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RESULT 3
US-09-423-800-58
; Sequence 58, Application US/09423800
; Patent No. US20020165363A1
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; APPLICANT: TSUNENARI, TOSHIKI
; APPLICANT: ISHII, KIMIE
; TITLE OF INVENTION: CACHEXIA REMEDY
; FILE REFERENCE: 04853-0036
; CURRENT APPLICATION NUMBER: US/09/423,800
; CURRENT FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: PCT/JP98/02116
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: JP 125505/1997
; PRIOR FILING DATE: 1997-05-15
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Db 61 GTGCAGCTGGTGGAGTCTGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCC 120
QY 121 TCGCAGAGCTCCGGGTTCAGGTTCACTTAATACTACTACAGACTGGGTCCGCCAG 180
Db 121 TGTGAGAGCTCTG-----GATTACCTTCAGTAGTATGGCATGTCTTGGGTCCGCCAG 174
QY 181 GCTCCAGGCGAGGGGTGGAGTGGGTCTCACGTATTAGTGTAGTGGTATCCCAATGG 240
Db 175 GCTCCAGGCGAGGGGTGGAGTGGGTGGCAACCATAGTAGTGGTGTAGTTACACCTAC 234
QY 241 TAGCAGAGCTCCGTGAAGGGCAGATTCACCATCTCCAGAGAGAAAGCCCAACACACTG 300
Db 235 TATCCAGACAGTGTGAAGGGGCGATTACCATCTCCAGAGACAATTCCAAGAACACGCTG 294
QY 301 TTCTTCAAAATGAACAGCTGAGAGCTGAGGACAGCGGTGTCTATTACTGTGCGAGCTG 360
Db 295 TATCTGCAAAATGAACAGCTGAGAGCTGAGGACAGCGGTGTCTATTACTGTGCGAGAG 354
QY 361 ACTCAGAGGTCTGAC-----TCCTGGGGCCAGGGAGTCTCTGGTCACCGTCTCTCTCA 411
Db 355 ACTACTATGACTTACTTTCTTACTTGGGGCCAGGGAACCTGTGTCACCGTCTCTCTCA 411
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## RESULT 6

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US-10-125-237-73
; Sequence 73, Application US/10125237
; Publication No. US2003002329A1
; GENERAL INFORMATION:
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; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chonghua
; APPLICANT: Zhou, Ping
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhao, Qing A.
; APPLICANT: Xue, Aidong J.
; APPLICANT: Zhang, Jie
; APPLICANT: Wehrman, Tom
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 791CIP2A
; CURRENT APPLICATION NUMBER: US/10/125,237
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 09/668,317
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/552,929
; PRIOR FILING DATE: 2000-04-18
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 73
; LENGTH: 690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (97)..(507)
US-10-125-237-73
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Query Match 65.3%; Score 268.4; DB 9; Length 690;

Best Local Similarity 86.8%; Pred. No. 5e-74;  
Matches 309; Conservative 0; Mismatches 41; Indels 6; Gaps 1;

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QY 1 ATGGAGTTTGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60
Db 97 ATGGAGTTTGGCTGAGCTGGGTTTCTTGTGTGTTATTTTAAAGGTGTCAGTGTGAG 156
QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCTCCAGACTCTCC 120
Db 157 GTGCAGCTGGTGGAGTCCGGGGAGGCTTAGTTCAGCCTGGGGGTCTCCAGACTCTCC 216
QY 121 TCGCAGAGCTCCGGGTTCAGGTTCACTTAATACTACTACAGTGGGTCCGCCAG 180
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Db 217 TGTGAGCCTCTG-----GATTACCTTCAGTAGTACTGATGCACTGGTCCGCCAA 270
QY 181 GCTCCAGGCGAGGGGTGGAGTGGGTCTCAGGTATTAGTAGTGTGATCCACATGG 240
Db 271 GCTCCAGGAGAGGGGTGGTGGGTCTCAGTATTAAATAGTATGGAGTAGCACAAGC 330
QY 241 TAGCAGAGCTCCGTGAAGGGCAGATTACCATCTCCAGAGAGAAAGCCCAACACACTG 300
Db 331 TACCGGAGCTCCGTGAAGGGCCGATTACCATCTCCAGAGACAACGCCAAGACACGCTG 390
QY 301 TTCTTCAAAATGAACAGCTGAGAGCTGAGGACAGCGGTGTCTATTACTGTGCGAG 356
Db 391 TATCTGCAAAATGAACAGTCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCAAG 446
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## RESULT 7

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US-10-105-891-73
; Sequence 73, Application US/10105891
; Publication No. US20030073099A1
; GENERAL INFORMATION:
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; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chonghua
; APPLICANT: Zhou, Ping
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhao, Qing A.
; APPLICANT: Xue, Aidong J.
; APPLICANT: Zhang, Jie
; APPLICANT: Wehrman, Tom
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 791CIP2A
; CURRENT APPLICATION NUMBER: US/10/105,891
; CURRENT FILING DATE: 2002-03-25
; PRIOR FILING DATE: 09/668,317
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/552,929
; PRIOR FILING DATE: 2000-04-18
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: pt_FL_genes Version 2.0
; SEQ ID NO 73
; LENGTH: 690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (97)..(507)
US-10-105-891-73
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Query Match 65.3%; Score 268.4; DB 9; Length 690;

Best Local Similarity 86.8%; Pred. No. 5e-74;  
Matches 309; Conservative 0; Mismatches 41; Indels 6; Gaps 1;

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QY 1 ATGGAGTTTGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60
Db 97 ATGGAGTTTGGCTGAGCTGGGTTTCTTGTGTGTTATTTTAAAGGTGTCAGTGTGAG 156
QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCTCCAGACTCTCC 120
Db 157 GTGCAGCTGGTGGAGTCCGGGGAGGCTTAGTTCAGCCTGGGGGTCTCCAGACTCTCC 216
QY 121 TCGCAGAGCTCCGGGTTCAGGTTCACTTAATACTACTACAGTGGGTCCGCCAG 180
Db 217 TGTGAGCCTCTG-----GATTACCTTCAGTAGTACTGATGCACTGGGTCCGCCAA 270
QY 181 GCTCCAGGCGAGGGGTGGAGTGGGTCTCAGTATTAGTAGTGTGATCCACATGG 240
Db 271 GCTCCAGGAGAGGGGTGGTGGGTCTCAGTATTAAATAGTATGGAGTAGCACAAGC 330
QY 241 TACCGAGCTCCGTGAAGGGCAGATTACCATCTCCAGAGAGAAAGCCCAACACACTG 300
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Db 100 ATGGAGTTTGGGCTGAGCTGGCTTTTCTTTGGCTATTTTAAAGGTGTCAGTGTGAG 159  
Qy 61 GTGCAGCTGGTGGAGTCTGGGGGGCTTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120  
Db 160 GTGCAGCTGTTGGAGTCTGGGGGGCTTTGGTACAGCTGGGGGTCCCTGAGACTCTCC 219  
Qy 121 TCGCAGACCTCCGGGTTACAGTTTCACTTCAATAACTACTACATGAGTGGTCCGCCAG 180  
Db 220 TGTGAGCCTCTG-----GATTACCTTTAGCAGTATGCCATGAGTGGTCCGCCAG 273  
Qy 181 GTCAGGCGCAGGGCTGGAGTGGGTCTCACGTTATAGTGTAGTGGTATCCCATG 240  
Db 274 GCTCCAGGAAGGGCTGGAGTGGGTCTCAGCTATTAGTGTAGTGGTGTAGCATAC 333  
Qy 241 TACGAGACTCCGTGAGGCGAGATTCAACATCTCCAGAGAAAGCCCAACACACTG 300  
Db 334 TACGAGACTCCGTGAAGGGCGGTTACCATCTCCAGAGACAATTCCAAGAACACGCTG 393  
Qy 301 TTTCTTCAAATGAACAGCTGAGAGCTGAGGACAGCGCTGTCTATTACTGTGCGA 355  
Db 394 TATCTGCAATGAACAGCTGAGAGCGGAGACAGCGCGTATATTACTGTGCGA 448

## RESULT 11

US-09-844-684-14  
; Sequence 14, Application US/09844684  
; Patent No. US20020142358A1  
; GENERAL INFORMATION:

; APPLICANT: GEMINI SCIENCE, INC.  
; TITLE OF INVENTION: LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY  
; FILE REFERENCE: 21286/0276339  
; CURRENT APPLICATION NUMBER: US/09/844,684  
; CURRENT FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: US 60/200,601  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 630  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-844-684-14

Query Match 64.3%; Score 264.2; DB 10; Length 630;  
Best Local Similarity 86.2%; Pred. No. 1e-72;  
Matches 306; Conservative 0; Mismatches 43; Indels 6; Gaps 1;

Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTTCTTTGTTCTCTTTTGAAGGTGTCAGTGTGAG 60  
Db 100 ATGGAGTTTGGGCTGAGCTGGGTTTTCTTTGGGCTATTTTAAAGGTGTCAGTGTGAG 159  
Qy 61 GTGCAGCTGGTGGAGTCTGGGGGGCTTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120  
Db 160 GTGCAGCTGTTGGAGTCTGGGGGGCTTTGGTACAGCTGGGGGTCCCTGAGACTCTCC 219  
Qy 121 TCGCAGCTCCGGGTTACAGTTTCACTTCAATACTACTACATGAGTGGTCCGCCAG 180  
Db 220 TGTGAGCCTCTG-----GATTACCTTTAGCAGTATGCCATGAGTGGTCCGCCAG 273  
Qy 181 GTCAGGCGCAGGGCTGGAGTGGGTCTCACGTTATAGTGTAGTGGTATCCCATG 240  
Db 274 GCTCCAGGAAGGGCTGGAGTGGGTCTCAGCTATTAGTGTAGTGGTGTAGCATAC 333  
Qy 241 TACGAGACTCCGTGAAGGCGAGATTCAACATCTCCAGAGAAAGCCCAACACACTG 300  
Db 334 TACGAGACTCCGTGAAGGGCGGTTACCATCTCCAGAGACAATTCCAAGAACACGCTG 393  
Qy 301 TTTCTTCAAATGAACAGCTGAGAGCTGAGGACAGCGCTGTCTATTACTGTGCGA 355  
Db 394 TATCTGCAATGAACAGCTGAGAGCGGAGACAGCGCGTATATTACTGTGCGA 448

## RESULT 12

US-10-040-244-12  
; Sequence 12, Application US/10040244  
; Publication No. US20030059427A1  
; GENERAL INFORMATION:  
; APPLICANT: KIRIN BEER KABUSHIKI KAISHA  
; APPLICANT: FORCE, WALKER F.  
; APPLICANT: TAKAHASHI, NOBUAKI  
; APPLICANT: MIKAYAMA, TOSHIYUMI  
; TITLE OF INVENTION: ISOLATION AND CHARACTERIZATION OF HIGHLY ACTIVE ANTI-CD40 ANTIBODIES

; FILE REFERENCE: 021286/0272501  
; CURRENT APPLICATION NUMBER: US/10/040,244  
; CURRENT FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: 60/200,601  
; PRIOR FILING DATE: 2000-04-28  
; PRIOR APPLICATION NUMBER: PCT/US01/13672  
; PRIOR FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: 09/844,684  
; PRIOR FILING DATE: 2001-04-27  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 12  
; LENGTH: 580  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-040-244-12

Query Match 63.5%; Score 261; DB 9; Length 580;  
Best Local Similarity 85.6%; Pred. No. 9.7e-72;  
Matches 304; Conservative 0; Mismatches 45; Indels 6; Gaps 1;

Qy 1 ATGCAGTTTGGGCTGAGCTGGGTTTTCTTTGTTCTCTTTTGAAGGTGTCAGTGTGAG 60  
Db 32 ATGCAGTTTGGGCTGGGCTGGCTTTTCTTTGGCTATTTTAAAGGTGTCAGTGTGAG 91  
Qy 61 GTGCAGCTGGTGGAGTCTGGGGGGCTTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120  
Db 92 GTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCTGGGGGTCCCTGAGACTCTCC 151  
Qy 121 TCGCAGCTCCGGGTTACAGTTTCACTTCAATACTACTACATGAGTGGTCCGCCAG 180  
Db 152 TGTGAGCCTCTG-----GATTGCGCTTTAGCAGCTATGCCATGAGTGGTCCGCCAG 205  
Qy 181 GCTCAGGCGCAGGGCTGGAGTGGGTCTCAGTATTAGTAGTGTAGTGTGATCCACATGG 240  
Db 206 GCTCAGGCGAAGGGCTGGAGTGGGTCTCAGTATTAGTGTAGTGTGTTAGCATAC 265  
Qy 241 TACGAGACTCCGTGAAGGCGAGATTCCCATCTCCAGAGAAAGCCCAACACACTG 300  
Db 266 TACGAGACTCCGTGAAGGGCGGTTCCCATCTCCAGAGACAATTCCAAGAACACGCTG 325  
Qy 301 TTTCTTCAAATGAACAGCTGAGAGCTGAGGACAGCGCTGTCTATTACTGTGCGA 355  
Db 326 TATCTGCAATGAACAGCTGAGAGCGGAGACAGCGCGTATATTACTGTGCGA 380

## RESULT 13

US-09-844-684-12  
; Sequence 12, Application US/09844684  
; Patent No. US20020142358A1  
; GENERAL INFORMATION:

; APPLICANT: GEMINI SCIENCE, INC.  
; TITLE OF INVENTION: LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY  
; FILE REFERENCE: 21286/0276339  
; CURRENT APPLICATION NUMBER: US/09/844,684  
; CURRENT FILING DATE: 2001-04-27  
; PRIOR APPLICATION NUMBER: US 60/200,601  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 12  
; LENGTH: 580



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;
; FILING DATE: 01-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Geiger, Kathleen
; REGISTRATION NUMBER: 35,880
; REFERENCE/DOCKET NUMBER: PS0504
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5968
; TELEFAX: 610-270-5090
; TELEX: <unknown>
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1427 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 20:
US-10-066-895-20

Query Match          62.8%; Score 258; DB 12; Length 1427;
Best Local Similarity 79.8%; Pred. No. 1.1e-70;
Matches 335; Conservative 0; Mismatches 70; Indels 15; Gaps 2;

Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTTTGAAAGGTGTCAGTGTGAG 60
Db |||||
Qy 13 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTTTGAAAGGTGTCAGTGTGAG 72
Db |||||
Qy 61 GTGCAGCTGTGAGTCTGGGGGGCTTTGGCAAGCCTGGGGGTCCCTGAGACTCTCC 120
Db |||||
Qy 73 GTGCAGCTGTGAGTCTGGGGGGCTTTGGCAAGCCTGGGGGTCCCTGAGACTCTCG 132
Db |||||
Qy 121 TCGCAGCCTCCGGGTTCAAGTTTCACTTCAATAACTATCATGGAAGTGGGTCCGCCAG 180
Db |||||
Qy 133 TGTGCAGCCTCTG-----GAACCACTCTAGTGGCTATACCATGCACCTGGGTCCGCCAG 186
Db |||||
Qy 181 GCTCCAGGCGAGGCTGAGTGGGTCTCAGCTATTTAGTAGTGGTATCCCACTGG 240
Db |||||
Qy 187 GCTCCAGGGAAGGGCTGAGTGGGTCTCATCTTACTGGAGGTAGCAACTTCATAAAC 246
Db |||||
Qy 241 TACGCAGACTCCGTGAAGGGCAGATTTCACCATCTCCAGAGAAACGCAACACACTG 300
Db |||||
Qy 247 TACTCAGACTCAGTGAAGGGCCGATTTCACCATCTCCAGAGAAACGCAACACTCTT 306
Db |||||
Qy 301 TTTCTTCAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTCCGAGTTG 360
Db |||||
Qy 307 TATCTGCAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTATTGTCCGACGCC 366
Db |||||
Qy 361 ACTACAG-----GGTCTGACTCTGGGGCCAGGAGTCTCTGTCACCGTCTCTCTCA 411
Db |||||
Qy 367 CCTATAGCACCGCCCTACTTTGACCACCTGGGGCCAGGAAACCTGTCACCGTCTCTCTCA 426
Db |||||
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Job time : 109.385 secs

Genome version 5.1.6  
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COM analysis: multiple search, using sw model

Run on: July 15, 2003, 07:15:52, Search time 1611.85 Seconds

6416.976 Million cell updates/sec

Title: us-09-292-053-7

Path: /usr/local/...

Search method: Multiple alignment

Search method: Multiple alignment

Search time: 1611.85 seconds

Total number of hits satisfying chosen parameters: 49582208

Minimum hit score: 411

Maximum hit score: 411

Post processing: Multiple alignment

Maximum Match: 100%

Maximum Match: 100%

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22 269.2 65.5 1458 23 US-09-617-746A-193 Sequence 193, App
23 269.2 65.5 1458 24 US-09-631-451A-193 Sequence 193, App
24 269.2 65.5 1458 25 US-09-652-125A-9393 Sequence 9393, App
25 269.2 65.5 1458 26 US-09-652-127-9452 Sequence 9452, App
26 269.2 65.5 1458 27 US-09-652-916-10122 Sequence 10122, A
27 269.2 65.5 1458 28 US-09-699-999-7481 Sequence 7481, App
28 269.2 65.5 1458 29 US-09-710-281-5795 Sequence 795, App
29 269.2 65.5 1458 30 US-09-716-475-7305 Sequence 7305, App
30 269.2 65.5 1458 31 US-09-726-175-3019 Sequence 3019, App
31 269.2 65.5 1458 32 US-09-726-176-1849 Sequence 1849, App
32 269.2 65.5 1458 33 US-09-726-211-1347 Sequence 1347, App
33 268.4 65.3 645 1. PCT-US01-08655-72 Sequence 72, Appl
34 268.4 65.3 690 26 US-09-668-317-73 Sequence 73, Appl
35 268.4 65.3 690 40 US-10-105-891-73 Sequence 73, Appl
36 268.4 65.3 690 40 US-10-125-237-73 Sequence 73, Appl
37 266.8 64.9 432 18 US-09-431-517-21418 Sequence 21418, A
38 266.6 64.9 1426 1. PCT-US02-20181-1 Sequence 1, Appl
39 265.4 64.6 1983 18 US-09-491-404-2415 Sequence 2415, App
40 265.4 64.6 1983 34 US-09-922-279-2415 Sequence 2415, App
41 265.4 64.6 1983 34 US-09-922-279A-2415 Sequence 2415, App
42 265.2 64.5 520 32 US-09-844-684-10 Sequence 10, Appl
43 265.2 64.5 520 38 US-10-040-244-10 Sequence 10, Appl
44 264.8 64.4 413 16 US-09-293-972-4372 Sequence 4372, App
45 264.8 64.4 413 34 US-09-904-939-4372 Sequence 4372, App
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ALIGNMENTS

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RESULT 1
US-09-292-053-7
; Sequence 7, Application US/09292053
; GENERAL INFORMATION:
; APPLICANT: REFF, MITCHELL E.
; APPLICANT: KLOETZER, WILLIAM S.
; APPLICANT: NAKAMURA, TAKEHIKO
; TITLE OF INVENTION: GAMMA-1 ANTI-HUMAN CD23 MONOCLONAL ANTIBODIES AND USE
; FILE REFERENCE: 23522.0699
; CURRENT APPLICATION NUMBER: US/09/292,053
; CURRENT FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: 08/803,085
; PRIOR FILING DATE: 1997-02-20
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 411
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: (1)..(58)
; NAME/KEY: mat_peptide
; LOCATION: (58)..(411)
; NAME/KEY: CDS
; LOCATION: (1)..(411)
US-09-292-053-7
Query Match 100.0%; Score 411; DB 16; Length 411;
Best Local Similarity 100.0%; Pred. No. 4.9e-102;
Matches 411; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGGAGTTTGGGTGAGCTGGGTTTCTCTGTTCTCTTTTCAAGGTGTCAGTGTGAG 60
DB 1 ATGGAGTTTGGGTGAGCTGGGTTTCTCTGTTCTCTTTTCAAGGTGTCAGTGTGAG 60
QY 61 GTGAGCTGGTGAAGTCTGGGGCGGCTTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120
DB 61 GTGAGCTGGTGAAGTCTGGGGCGGCTTTGGCAAGCCCTGGGGGTCCCTGAGACTCTCC 120
QY 121 TCGGAGCTCCGGGTTTCAAGTTCACCTTCATAACTACTACATGAGTGGTCCGCCAG 180
DB 121 TCGGAGCTCCGGGTTTCAAGTTCACCTTCATAACTACTACATGAGTGGTCCGCCAG 180
```









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; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; TITLE OF INVENTION: NOVEL CONTIGS OBTAINED FROM VARIOUS CDNA
; LIBRARIES
; FILE REFERENCE: 20411-752CON1
; CURRENT APPLICATION NUMBER: US/09/359,922A
; EARLIER FILING DATE: 1999-07-22
; EARLIER APPLICATION NUMBER: US 09/205,155
; EARLIER FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: US 09/034,341
; EARLIER FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 13203
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 264
; LENGTH: 1709
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-359-922-264

Query Match      68.1%; Score 280; DB 17; Length 1709;
Best Local Similarity 82.6%; Pred. No. 6e-66;
Matches 355; Conservative 0; Mismatches 50; Indels 25; Gaps 2;

QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCCCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60
Db 1546 ATGGAGTTTGGGCTGAGCTGGGTTTCCCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 1487

QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCTTGAGACTCTCC 120
Db 1486 GTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCAGCTGGGGGTCCTTGAGACTCTCC 1427

QY 121 TGGCAGCCTCCGGGTTTCAGGTTTCACTTCAATACTACTACATGAGTGGGTCGGCCAG 180
Db 1426 TGTGAGCCTCTG-----GATTCACCTTCAATGATTATGCCATGAGCTGGTCCGCCAG 1373

QY 181 GCTCCAGGCGAGGGCTGGAGTGGGTCTCAGGTATTTAGTAGTAGTGTGATCCACATGG 240
Db 1426 TGTGAGCCTCTG-----GATTCACCTTCAATGATTATGCCATGAGCTGGTCCGCCAG 1373

QY 181 GCTCCAGGCGAGGGCTGGAGTGGGTCTCAGGTATTTAGTAGTAGTGTGATCCACATGG 240
Db 1372 GCTCCAGGCGAGGGCTGGAGTGGGTCTCAGGTATTTAGTAGTAGTGTGATCCACATGG 1313

QY 241 TACGACAGCTCCGTTGAAGGCGAGATTCCACCATCTCCAGAGAGAACGCCAACACACTG 300
Db 1312 TACGACAGCTCTGTGAAGGCGGCAATTCACCATCTCCAGAGAGAACGCCAACACTG 1253

QY 301 TTTCTTCAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360
Db 1252 TATCTGCAATGAACAGCCTGAGAGCGGAGGACACGGCTGTGTATTACTGTGCGAGAGGA 1193

QY 361 ACTACAGGG-----TCTGACTCTCTGGGCGCAGGAGTCTCTGTCAC 401
Db 1192 CCTCAGCGTGTGTGCTGCTCCCTTCCACATGACTCTCTGGGCGCAGGAAACCTGTGTCAC 1133

QY 402 CGTCTCCTCA 411
Db 1132 CGTCTCCTCA 1123

RESULT 10
US-09-919-002-264/c
; Sequence 284, Application US/09919002
; GENERAL INFORMATION:
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; TITLE OF INVENTION: NOVEL CONTIGS OBTAINED FROM VARIOUS CDNA
; LIBRARIES
; FILE REFERENCE: 20411-752CON1
; CURRENT APPLICATION NUMBER: US/09/919,002
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: APPLICATION NUMBER: 09/359,922
; PRIOR FILING DATE: FILING DATE: 1999-07-22
; PRIOR APPLICATION NUMBER: APPLICATION NUMBER: US 09/034,341
; PRIOR FILING DATE: FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 13203
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 264
; LENGTH: 1709
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-919-002-264

Query Match      68.1%; Score 280; DB 34; Length 1709;
Best Local Similarity 82.6%; Pred. No. 6e-66;
Matches 355; Conservative 0; Mismatches 50; Indels 25; Gaps 2;

QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCCCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60
Db 1546 ATGGAGTTTGGGCTGAGCTGGGTTTCCCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 1487

QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCTTGAGACTCTCC 120
Db 1486 GTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCAGCTGGGGGTCCTTGAGACTCTCC 1427

QY 121 TGGCAGCCTCCGGGTTTCAGGTTTCACTTCAATACTACTACATGAGTGGGTCGGCCAG 180
Db 1426 TGTGAGCCTCTG-----GATTCACCTTCAATGATTATGCCATGAGCTGGTCCGCCAG 1373

QY 181 GCTCCAGGCGAGGGCTGGAGTGGGTCTCAGGTATTTAGTAGTAGTGTGATCCACATGG 240
Db 1372 GCTCCAGGCGAGGGCTGGAGTGGGTCTCAGGTATTTAGTAGTAGTGTGATCCACATGG 1313

QY 241 TACGACAGCTCCGTTGAAGGCGAGATTCCACCATCTCCAGAGAGAACGCCAACACACTG 300
Db 1312 TACGACAGCTGTGTGAAGGCGGCAATTCACCATCTCCAGAGAGAACGCCAACACTG 1253

QY 301 TTTCTTCAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360
Db 1252 TATCTGCAATGAACAGCCTGAGAGCGGAGGACACGGCTGTGTATTACTGTGCGAGAGGA 1193

QY 361 ACTACAGGG-----TCTGACTCTCTGGGCGCAGGAGTCTCTGTCAC 401
Db 1192 CCTCAGCGTGTGTGCTGCTCCCTTCCACATGACTCTCTGGGCGCAGGAAACCTGTGTCAC 1133

QY 402 CGTCTCCTCA 411
Db 1132 CGTCTCCTCA 1123

RESULT 11
US-09-652-127-9891
; Sequence 9891, Application US/09652127
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1183-001
; CURRENT APPLICATION NUMBER: US/09/652,127
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/151,134
; PRIOR FILING DATE: 1999-08-30
; NUMBER OF SEQ ID NOS: 10475
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9891
; LENGTH: 591
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-652-127-9891

Query Match      67.4%; Score 277.2; DB 25; Length 591;
Best Local Similarity 82.6%; Pred. No. 2.7e-65;
Matches 347; Conservative 0; Mismatches 58; Indels 15; Gaps 2;

QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCCCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60
Db 96 ATGGAAGTGGGGCTCCGCTGGGTTTCCCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 155

QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCCTTGAGACTCTCC 120
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; PRIOR FILING DATE: 1996-09-26
; PRIOR APPLICATION NUMBER: JP 214168/1997
; PRIOR FILING DATE: 1997-07-24
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
; LENGTH: 411
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(411)
; NAME/KEY: sig_peptide
; LOCATION: (1)..(57)
; NAME/KEY: mat_peptide
; LOCATION: (58)..(411)
US-09-269-332-58

Query Match      65.8%; Score 270.6; DB 16; Length 411;
Best Local Similarity 81.8%; Pred. No. 1.6e-63;
Matches 341; Conservative 0; Mismatches 64; Indels 12; Gaps 2;

Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTCCTTTTGAAGGTTCCAGTGTGAG 60
Db 1 ATGGGGTTTGGGCTGAGCTGGGTTTTCCTTGTTCCTTTTAAAGGTTCCAGTGTGAG 60

Qy 61 GTGCAGCTGGTGGAGTCTGGGGGCGGCTTGGCAAGCCCTGGGGGCTCCCTGAGACTCTCC 120
Db 61 GTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCTGGGAGGTCCCTGAGACTCTCC 120

Qy 121 TGCAGCTCCCGGTTTCAGGTTTCACTTCAATAACTACTACATGGACTGGGTCCGCCAG 180
Db 121 TGTGAGCTCTG-----GATTTCACCTTCAGTAGCTATGGCATGTCTTGGTCCGCCAG 174

Qy 181 GCTCAGGCGAGGGGCTGGAGTGGGTCTCAGGTATTAGTAGTAGTGGTATCCCATG 240
Db 175 GCTCAGGCGAAGGGGCTGGAGTGGGTGGCAACCACTTAGTAGTGGTATGACCTAC 234

Qy 241 TACGAGACTCCGTGAAGGCGAGATTCCACCATCTCCAGAGAGAACGCCAACACACTG 300
Db 235 TATCCAGACAGTGTGAAGGGCGGATTCCACCATCTCCAGAGACAATTCCAGAACACGCTG 294

Qy 301 TTTCTTCAAATGAACACGCTGAGAGCTGAGAGACACGGCTGTCTATTACTGTGCGAGTTG 360
Db 295 TATCTGCAAATGAACACGCTGAGAGCTGAGAGACACGGCTGTGTATTACTGTGCGAGACAG 354

Qy 361 ACTACAGGTTCTGAC-----TCCTGGGCGCAGGAGTCCCTGTCACCGTCTCTCTCA 411
Db 355 ACTACTATGACTTACTTTGCTTACTTGGGCGCAGGAAACCCCTGGTCAACCGTCTCTCTCA 411
```

```
RESULT 15
US-09-423-800-58
; Sequence 58, Application US/09423800
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; APPLICANT: TSUNENARI, TOSHIKI
; APPLICANT: ISHII, KIMIE
; TITLE OF INVENTION: CACHEXIA REMEDY
; FILE REFERENCE: 04853-0036
; CURRENT APPLICATION NUMBER: US/09/423,800
; CURRENT FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: PCT/JP98/02116
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: JP 125505/1997
; PRIOR FILING DATE: 1997-05-15
; PRIOR APPLICATION NUMBER: JP 194445/1997
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
; LENGTH: 411
; TYPE: DNA
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(411)
; NAME/KEY: sig_peptide
; LOCATION: (1)..(57)
; NAME/KEY: mat_peptide
; LOCATION: (58)..(411)
US-09-423-800-58

Query Match      65.8%; Score 270.6; DB 18; Length 411;
Best Local Similarity 81.8%; Pred. No. 1.6e-63;
Matches 341; Conservative 0; Mismatches 64; Indels 12; Gaps 2;

Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTCCTTTTGAAGGTTCCAGTGTGAG 60
Db 1 ATGGGGTTTGGGCTGAGCTGGGTTTTCCTTGTTCCTTTTAAAGGTTCCAGTGTGAG 60

Qy 61 GTGCAGCTGGTGGAGTCTGGGGGCGGCTTGGCAAGCCCTGGGGGCTCCCTGAGACTCTCC 120
Db 61 GTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCTGGGAGGTCCCTGAGACTCTCC 120

Qy 121 TGCAGCTCCCGGTTTCAGGTTTCACTTCAATAACTACTACATGGACTGGGTCCGCCAG 180
Db 121 TGTGAGCTCTG-----GATTTCACCTTCAGTAGCTATGGCATGTCTTGGTCCGCCAG 174

Qy 181 GCTCAGGCGAGGGGCTGGAGTGGGTCTCAGGTATTAGTAGTAGTGGTATCCCATG 240
Db 175 GCTCAGGCGAAGGGGCTGGAGTGGGTGGCAACCACTTAGTAGTGGTATGACCTAC 234

Qy 241 TACGAGACTCCGTGAAGGCGAGATTCCACCATCTCCAGAGAGAACGCCAACACACTG 300
Db 235 TATCCAGACAGTGTGAAGGGCGGATTCCACCATCTCCAGAGACAATTCCAGAACACGCTG 294

Qy 301 TTTCTTCAAATGAACACGCTGAGAGCTGAGAGACACGGCTGTCTATTACTGTGCGAGTTG 360
Db 295 TATCTGCAAATGAACACGCTGAGAGCTGAGAGACACGGCTGTGTATTACTGTGCGAGACAG 354

Qy 361 ACTACAGGTTCTGAC-----TCCTGGGCGCAGGAGTCCCTGTCACCGTCTCTCTCA 411
Db 355 ACTACTATGACTTACTTTGCTTACTTGGGCGCAGGAAACCCCTGGTCAACCGTCTCTCTCA 411
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Search completed: July 15, 2003, 11:46:01  
Job time : 1613.85 secs



QY 121 TGGCAGCTCCGGGTTCAAGTTCACTTCAATAACTACTACATGAGTGGTCCGCCAG 180  
Db 121 TGTGACGCTCTG-----GATTCACTTCAGTAGTTTGGAGTAACTGGGTCCGCCAG 174  
QY 181 GCTCCAGGCGAGGGCTGAGTGGGTCTCAAGTATTAGTAGTGGTATCCCATGG 240  
Db 175 GTCTCCAGGAGGGGCTGAGTGGGTCTCATCTTACTAGTAGTAGTTACATATAC 234  
QY 241 TACGAGACTCCGTGAAGGCGAGATTCACTATCTCCAGAGAGAACGCCAACACACTG 300  
Db 235 TACGAGACTCAGTGAAGGCGGATTCACTATCTCCAGAGAGAACGCCAAGAACTACTG 294  
QY 301 TTTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGTGTCTATTACTGTCCGAGCTTG 360  
Db 295 TATCTGCAATGAACAGCTGAGAGCGGAGGACAGCGTGTCTATTACTGTCCGAGATT 354  
QY 361 A---CTACAGGCTCTGACTCTCTGGGGCCAGGAGTCTGGTCAACGCTCTCTCA 411  
Db 355 ACAGCTATGGCCCTTGACTACTTGGGGCCAGGAAACCTGGTCAACGCTCTCTCA 408  
RESULT 2  
US-10-309-762-112  
; Sequence 112, Application US/10309762  
; GENERAL INFORMATION:  
; APPLICANT: Gudas, Jean  
; APPLICANT: Foltz, Ian  
; APPLICANT: Hands, Masahisa  
; APPLICANT: Gallo, Michael  
; TITLE OF INVENTION: ANTIBODIES AGAINST CARBOXYIC ANHYDRASE IX  
; FILE REFERENCE: ABGENIX. 027A  
; CURRENT APPLICATION NUMBER: US/10/309,762  
; PRIOR FILING DATE: 2002-12-02  
; PRIOR FILING DATE: 2001-12-03  
; NUMBER OF SEQ ID NOS: 246  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 112  
; LENGTH: 408  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-309-762-112

Query Match 69.3%; Score 284.8; DB 14; Length 408;  
Best Local Similarity 84.1%; Pred. No. 3.1e-75;  
Matches 348; Conservative 0; Mismatches 57; Indels 9; Gaps 2;  
QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTAAAGGTGTCAGTGTGAG 60  
Db 1 ATGGAGTTTGGGCTGCGCTGGGTTTCTTGTCTTGTCTATTATAGAAAGGTGTCAGTGTGAG 60  
QY 61 GTCCAGCTGGTGGAGTCTGGGGCGCTTGGCAAGCCTGGGGGTCTCCAGACTCTCC 120  
Db 61 GTCCAGTGGTGGAGTTTGGGGAGGCGCTGGTCAAGCCTGGGGGTCTCCAGACTCTCC 120  
QY 121 TGGCAGCTCCGGGTTCAAGTTCACTTCAATAACTACTACATGAGTGGTCCCTGAGACTCTCC 180  
Db 121 TGTGAGAGCTCTG-----GATTCACTTCAGTAGTTTGGAGTAACTGGGTCCGCCAG 174  
QY 181 GCTCCAGGCGAGGGCTGAGTGGGTCTCAAGTATTAGTAGTGGTATCCCATGG 240  
Db 175 GCTCCAGGCGAGGGGCTGAGTGGGTCTCATCTTACTAGTAGTAGTTACATATAC 234  
QY 241 TACGAGACTCCGTGAAGGCGAGATTCACTATCTCCAGAGAGAACGCCAACACACTG 300  
Db 235 TACGAGACTCAGTGAAGGCGGATTCACTATCTCCAGAGAGAACGCCAAGAACTACTG 294  
QY 301 TTTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGTGTCTATTACTGTCCGAGCTTG 360  
Db 295 TATCTGCAATGAACAGCTGAGAGCGGAGGACAGCGTGTCTATTACTGTCCGAGATT 354  
QY 361 A---CTACAGGCTCTGACTCTCTGGGGCCAGGAGTCTGGTCAACGCTCTCTCA 411

Db 355 ACAGCTATGGCCCTTGACTACTTGGGGCCAGGAAACCTGGTCAACGCTCTCTCA 408  
RESULT 3  
PCT-US02-38540-126  
; Sequence 126, Application PC/TUS0238540  
; GENERAL INFORMATION:  
; APPLICANT: ABGENIX, INC.  
; APPLICANT: FOLTZ, Ian  
; APPLICANT: BASCOOK, John  
; APPLICANT: PALATHUMPAT, Raju  
; APPLICANT: YANG, Xiao-dong  
; APPLICANT: KING, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR45RB ANTIBODIES FOR USE IN  
; FILE REFERENCE: ABGENIX.029VPC  
; CURRENT APPLICATION NUMBER: PCT/US02/38540  
; PRIOR FILING DATE: 2002-12-02  
; PRIOR FILING DATE: US 60/337,276  
; PRIOR FILING DATE: 2001-12-03  
; NUMBER OF SEQ ID NOS: 147  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 126  
; LENGTH: 414  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US02-38540-126

Query Match 68.6%; Score 282; DB 2; Length 414;  
Best Local Similarity 83.3%; Pred. No. 2.2e-74;  
Matches 350; Conservative 0; Mismatches 55; Indels 15; Gaps 2;  
QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTAAAGGTGTCAGTGTGAG 60  
Db 1 ATGGAGTTTGGGCTTAGCTGGGTTTCTTGTCTCTTTTAAAGGTGTCAGTGTGAG 60  
QY 61 GTCCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCCTGGGGGTCTCCAGACTCTCC 120  
Db 61 GTCCACCTGGTGGAGTCTGGGGAGGCTTGGTCAAGCCTGGAGGCTCCCTGAGACTCTCC 120  
QY 121 TGGCAGCTCCGGGTTCAAGTTCACTTCAATAACTACTACATGAGTGGTCCGCCAG 180  
Db 121 TGGCAGCTCTG-----GATTCACTTCAATAACTACTACATGAGTGGTCCGCCAG 174  
QY 181 GCTCCAGGCGAGGGCTGAGTGGGTCTCAAGTATTAGTAGTGGTATCCCATGG 240  
Db 175 GCTCCAGGAAAGGGCTGGAGTGGGTTTATACATTAGTCTTAGTGGCAGTACCATATAC 234  
QY 241 TACGAGACTCCGTGAAGGCGAGATTCACTATCTCCAGAGAGAACGCCAACACACTG 300  
Db 235 TACGAGACTCTGTGAAGGCGGATTCACTATCTCCAGGAGAACGCCAAGAACTACTG 294  
QY 301 TTTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGTGTCTATTACTGTCCGAGCTTG 360  
Db 295 TTTCTGCAATGAACAGCTGAGAGCGGAGGACAGCGGCTGTATTACTGTCCGAGAGG 354  
QY 361 AC-----TACAGGCTCTGACTCTCTGGGGCCAGGAGTCTGGTCAACGCTCTCTCA 411  
Db 355 GCGCTAGGCTGACTACTTTTGACTACTTGGGGCCAGGAAACCTGGTCAACGCTCTCTCA 414

RESULT 4  
US-10-309-764-126  
; Sequence 126, Application US/10309764  
; GENERAL INFORMATION:  
; APPLICANT: Foltz, Ian  
; APPLICANT: Babcock, John  
; APPLICANT: Palathumpat, Raju  
; APPLICANT: Yang, Xiao-dong  
; APPLICANT: King, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR45RB ANTIBODIES FOR USE IN  
; FILE REFERENCE: TREATING AUTOIMMUNE DISEASE AND TRANSPLANT REJECTION



Db 175 GTCCAGGAGAGGGCTGGAGTGGGTTTCATACATTAGTAGTAGTGTCCCATTTAC 234  
Qy 241 TACGCAGACTCCGTGAAGGCGAGATTCCACATCTCCAGAGAAACGCAACACACTG 300  
Db 235 TACGCAGACTCTGTGAAGGCGGATTCCACATCTCCAGGCAATGCCAAGAACTACTG 294  
Qy 301 TTTCTTCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360  
Db 295 TATCTGCAAATGAACAGCCTGAGAGCCGAGAGCACGGCGGTGATTACTGTGCGAAGG 354  
Qy 361 ACT-----ACAGGCTGACTCTCTGGGCGCAGGAGTCTCGTACCGTCTCTCTCA 411  
Db 355 ACTGGATCTACGACGCTCTTTGACTACTTGGGCGCAGGGAACCTGGTCAACCGTCTCTCA 414

RESULT 7

PCT-US03-18934-94  
; Sequence 94, Application PC/TUS0318934  
; GENERAL INFORMATION:  
; APPLICANT: diadexus, Inc.  
; APPLICANT: Salceda, Susana  
; APPLICANT: Macina, Roberto A.  
; APPLICANT: Turner, Leah R.  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and P  
; FILE REFERENCE: DEX-0432  
; CURRENT APPLICATION NUMBER: PCT/US03/18934  
; CURRENT FILING DATE: 2003-06-16  
; PRIOR APPLICATION NUMBER: US 60/389,327  
; PRIOR FILING DATE: 2002-06-14  
; NUMBER OF SEQ ID NOS: 171  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 94  
; LENGTH: 1493  
; TYPE: DNA  
; ORGANISM: Homo sapien  
PCT-US03-18934-94

Query Match 67.2%; Score 276.2; DB 1; Length 1493;  
Best Local Similarity 81.8%; Pred. No. 1.9e-72; Mismatches 68; Indels 6; Gaps 1;  
Matches 333; Conservative 0;  
Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTTGTCTCTTTTCAAGGTGTCAGTGTGAG 60  
Db 68 ATGGAGTTTGGGCTGAGCTGGCTTTTCTTGTGGCTATTTTAAAGGTGTCAGTGTGAG 127  
Qy 61 GTGCAGCTGGTGAAGTCTGGGGGGGCTTTGGCAAGCCTGGGGGTCCCTGAGACTCTCC 120  
Db 128 GTGCAGCTGTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGTCCCTGAGACTCTCC 187  
Qy 121 TCGCAGCCTCCGGGTTTCAGGTTTCACCTTCAATACTACTACATGAGCTGGGTCCGCCAG 180  
Db 189 TGTGAGCCTCTG-----GATTCACCTTTAGCATCTATGCCATGAGCTGGGTCCGCCAG 241  
Qy 181 GCTCAGGCGAGGGCTGGAGTGGGTCTCACGTTATTAGTAGTGGTGGTATCCCATATGG 240  
Db 242 GCTCAGGGAAGGGCTGGAGTGGGTCCGAAGTATCAGTTTCAGTGGTGGTAGTACATAC 301  
Qy 241 TACGCAGACTCCGTGAAGGCGAGATTCCACATCTCCAGAGAAACGCAACACACTG 300  
Db 302 TACGCAGACTCCGTGAAGGCGGTTTCCACATCTCCAGAGAAATTCGAAGACCAAGATG 361  
Qy 301 TTTCTTCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360  
Db 362 CATCTCCCATGAACAGCCTGAGAACCGAGACACGGCGGTCTACTACTGTGCGAAACCG 421  
Qy 361 ACTACAGGCTGACTCTCTGGGGCCAGGAGTCTGGTCAACCGTCTC 407  
Db 422 TTTCCGTATTTTGACTACTTGGGGCCAGGGAACCTGGTCAACCGTCTC 468

RESULT 8

PCT-US02-38540-94  
; Sequence 94, Application PC/TUS0238540  
; GENERAL INFORMATION:  
; APPLICANT: ABGENIX, INC.  
; APPLICANT: Foltz, Ian  
; APPLICANT: Babcock, John  
; APPLICANT: Palathumpat, Raju  
; APPLICANT: Yang, Xiao-dong  
; APPLICANT: King, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR45RB ANTIBODIES FOR USE IN  
; FILE REFERENCE: ABGENIX.029A  
; CURRENT APPLICATION NUMBER: PCT/US02/38540  
; CURRENT FILING DATE: 2002-12-02  
; PRIOR APPLICATION NUMBER: US 60/337,276  
; PRIOR FILING DATE: 2001-12-03  
; NUMBER OF SEQ ID NOS: 147  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 94  
; LENGTH: 405  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US02-38540-94

Query Match 66.6%; Score 273.8; DB 2; Length 405;  
Best Local Similarity 81.0%; Pred. No. 6.5e-72;  
Matches 333; Conservative 0; Mismatches 72; Indels 6; Gaps 1;  
Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
Db 1 ATGGAGTTTGGGCTGCGCTGGGTTTCTCTCTCTTTTAAAGAGGTGTCAGTGTGAG 60  
Qy 61 GTGCAGCTGGTGGAGTCTGGGGGGGCTTGGCAAGCTGGGGGTCCCTGAGACTCTCC 120  
Db 61 GTGCAGCTGGTGGAGTCTGGGGGAGGCTGTCAGGCTGGGAGTCTCTGAGAGTCTCC 120  
Qy 121 TCGCAGCCTCCGGGTTTCAGGTTTCACCTTCAATACTACTACATGAGCTGGGTCCGCCAG 180  
Db 121 TGTCCAGCGTCTG-----GATTCACCTTCAGTAACTATGGCATGCACTGGGTCCGCCAG 174  
Qy 181 GCTCAGGCGAGGGCTGGAGTGGGTCTCAGTATTAGTAGTGTGATGCCACATGG 240  
Db 175 GCTCCAGCAAGGGCTGGAGTGGGTGGGCTATATGGTATGATGAAGTAAAAAATTC 234  
Qy 241 TACGCAGACTCCGTGAAGGCGAGATTCCACATCTCCAGAGAAACGCAACACACTG 300  
Db 235 TATCCAGACTCCGTGAAGGCGGATTCCACATCTCCAGAGACAATCCAGAAACCGCTG 294  
Qy 301 TTTCTTCAAATGAACAGCCTGAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360  
Db 295 TCTCTGCAAATGAGCAGCCTGAGAGCCGAGGACACGGCTGTGTATTACTGTGCGAGAGGC 354  
Qy 361 ACTACAGGCTGACTCTCTGGGGCCAGGAGTCTGTGTCACCGTCTCTCTCA 411  
Db 355 GGTGGGAGCTTGTACTTCTGGGGCCAGGAAACCTGGTCAACCGTCTCTCTCA 405

RESULT 9  
US-10-309-764-94  
; Sequence 94, Application US/10309764  
; GENERAL INFORMATION:  
; APPLICANT: Foltz, Ian  
; APPLICANT: Babcock, John  
; APPLICANT: Palathumpat, Raju  
; APPLICANT: Yang, Xiao-dong  
; APPLICANT: King, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR45RB ANTIBODIES FOR USE IN  
; FILE REFERENCE: ABGENIX.029A  
; CURRENT APPLICATION NUMBER: US/10/309,764  
; CURRENT FILING DATE: 2002-12-02  
; PRIOR APPLICATION NUMBER: 60/337,276  
; PRIOR FILING DATE: 2001-12-03





QY 181 GCTCAGGCGAGGGCTGGAGTGGGTCTCAGTATTAGTAGTGGTATCCCATGG 240  
DB 175 GCTCAGGCGAGGGCTGGAGTGGGTGGCAATTATATGATGGAAGTAAAAATTC 234  
QY 241 TAGCAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAAGCCCAACACACTG 300  
DB 235 TATGAGACTCCGTGAAGGCGGATTACCATCTCCAGAGAAATTCCAACACAGCTG 294  
QY 301 TTCTTTCAATGAACAGCTGAGAGTGGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360  
DB 295 TATCTGCACTGAACAGCTGAGAGTGGAGGACAGGCTGTCTATTACTGTGCGAGAGG 354  
QY 361 ACTCAGGCTGTGACTCTCTGGGCGCAGGAGTCTGGTCAACGCTCTCTCA 411  
DB 355 GCGGCTGACATTGACTTCTGGGCGCAGGGAACCTGGTCACCGTCTCTCA 405

RESULT 12  
PCT-US02-38540-134  
; Sequence 134, Application PC/TUS0238540  
; GENERAL INFORMATION:  
; APPLICANT: ABGENIX, INC.  
; APPLICANT: FOLTZ, Ian  
; APPLICANT: BABCOOK, John  
; APPLICANT: PALATHUMPAT, Raju  
; APPLICANT: YANG, Xiao-dong  
; APPLICANT: KING, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR4SRB ANTIBODIES FOR USE IN  
; TREATING AUTOIMMUNE DISEASE AND TRANSPLANT REJECTION  
; FILE REFERENCE: ABGENIX.029VPC  
; CURRENT APPLICATION NUMBER: PCT/US02/38540  
; CURRENT FILING DATE: 2002-12-02  
; PRIOR APPLICATION NUMBER: US 60/337,276  
; PRIOR FILING DATE: 2001-12-03  
; NUMBER OF SEQ ID NOS: 147  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 134  
; LENGTH: 414  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US02-38540-134

Query Match 66.3%; Score 272.4; DB 2; Length 414;  
Best Local Similarity 81.9%; Pred. No. 1.7e-71;  
Matches 344; Conservative 0; Mismatches 61; Indels 15; Gaps 2;

QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
DB 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCTTGGGGGTCCCTGAGACTCTCC 120  
DB 61 GTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACAGCTGGGGGTCCCTGAGACTCTCC 120  
QY 121 TGCCAGCCTCCGGGTTTCACTTCAATTAATCTACATGAGTGGTCCGCGCAG 180  
DB 121 TGTGAGCTCTG-----GATTCACTTTAGCAGCTATGCCATGAGCTGGGTCCGCGCAG 174  
QY 181 GCTCAGGCGAGGGCTGGAGTGGTCTCAGTATTAGTAGTGGTATCCCATGG 240  
DB 175 GCTCAGGGAAGGGGCTGGAGTGGGTCTCAACTATTAGTGGTATGAGTGGTATGACATAC 234  
QY 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAAGCCCAACACACTG 300  
DB 235 TACGAGACTCCGTGAAGGCGGCTTCACTTCCAGAGAAATTCCNAGAACACGCTG 294  
QY 301 TTCTTTCAATGAACAGCTGAGAGTGGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360  
DB 295 TATCTGCAATGAACAGCTGAGAGGCGGCTGAGAGCGGACACGCGCTATATTACTGTGCGAAAGAG 354  
QY 361 A-----CTACAGGCTGACTCTCTGGGCGCAGGAGTCCCTGGTCACCGTCTCTCA 411  
DB 355 AGGTATACTGGAACCTACCTACACTACTCTGGGCGCAGGGAACCCCTGGTCCCGTCTCTCA 414

RESULT 13  
PCT-US03-09260-5  
; Sequence 5, Application PC/TUS0309260  
; GENERAL INFORMATION:  
; APPLICANT: Schering Corporation and Abgenix, Inc.  
; APPLICANT: Greenfeder, Scott  
; APPLICANT: Corvalan, Jose  
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO INTERLEUKIN-5 AND METHODS AND COM  
; FILE REFERENCE: L101564W1  
; CURRENT APPLICATION NUMBER: PCT/US03/09260  
; CURRENT FILING DATE: 2003-03-27  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 414  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US03-09260-5

Query Match 66.3%; Score 272.4; DB 2; Length 414;  
Best Local Similarity 81.9%; Pred. No. 1.7e-71;  
Matches 344; Conservative 0; Mismatches 61; Indels 15; Gaps 2;

QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
DB 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCTTGGGGGTCCCTGAGACTCTCC 120  
DB 61 GTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACAGCTGGGGGTCCCTGAGACTCTCC 120  
QY 121 TGCCAGCCTCCGGGTTTCACTTCAATTAATCTACATGAGTGGTCCGCGCAG 180  
DB 121 TGTGAGCTCTG-----GATTCACTTTAGCAGCTATGCCATGAGCTGGGTCCGCGCAG 174  
QY 181 GCTCAGGCGAGGGCTGGAGTGGTCTCAGTATTAGTAGTGGTATCCCATGG 240  
DB 175 GCTCAGGGAAGGGGCTGGAGTGGGTCTCAACTATTAGTGGTATGAGTGGTATGACATAC 234  
QY 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAAGCCCAACACACTG 300  
DB 235 TACGAGACTCCGTGAAGGCGGCTTCACTTCCAGAGAAATTCCNAGAACACGCTG 294  
QY 301 TTCTTTCAATGAACAGCTGAGAGTGGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360  
DB 295 TATCTGCAATGAACAGCTGAGAGGCGGCTGAGAGCGGACACGCGCTATATTACTGTGCGAAAGAG 354  
QY 361 A-----CTACAGGCTGACTCTCTGGGCGCAGGAGTCCCTGGTCACCGTCTCTCA 411  
DB 355 AGGTATACTGGAACCTACCTACACTACTCTGGGCGCAGGGAACCCCTGGTCCCGTCTCTCA 414

RESULT 14  
US-10-309-764-134  
; Sequence 134, Application US/10309764  
; GENERAL INFORMATION:  
; APPLICANT: Foltz, Ian  
; APPLICANT: Babcock, John  
; APPLICANT: Palathumpat, Raju  
; APPLICANT: Yang, Xiao-dong  
; APPLICANT: King, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR4SRB ANTIBODIES FOR USE IN  
; TREATING AUTOIMMUNE DISEASE AND TRANSPLANT REJECTION  
; FILE REFERENCE: ABGENIX.029A  
; CURRENT APPLICATION NUMBER: US/10/309,764  
; CURRENT FILING DATE: 2002-12-02  
; PRIOR APPLICATION NUMBER: 60/337,276  
; PRIOR FILING DATE: 2001-12-03  
; NUMBER OF SEQ ID NOS: 147

DB 355 ACTGAACTACGAGGCTTTTACTACTGGGGCAGGGAACCCCTGGTCCCGTCTCTCA 414

RESULT 13  
PCT-US03-09260-5  
; Sequence 5, Application PC/TUS0309260  
; GENERAL INFORMATION:  
; APPLICANT: Schering Corporation and Abgenix, Inc.  
; APPLICANT: Greenfeder, Scott  
; APPLICANT: Corvalan, Jose  
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO INTERLEUKIN-5 AND METHODS AND COM  
; FILE REFERENCE: L101564W1  
; CURRENT APPLICATION NUMBER: PCT/US03/09260  
; CURRENT FILING DATE: 2003-03-27  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 414  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
PCT-US03-09260-5

Query Match 66.3%; Score 272.4; DB 2; Length 414;  
Best Local Similarity 81.9%; Pred. No. 1.7e-71;  
Matches 344; Conservative 0; Mismatches 61; Indels 15; Gaps 2;

QY 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
DB 1 ATGGAGTTTGGGCTGAGCTGGGTTTCTTGTCTCTTTTGAAGGTGTCAGTGTGAG 60  
QY 61 GTGCAGCTGGTGGAGTCTGGGGCGGCTTGGCAAGCTTGGGGGTCCCTGAGACTCTCC 120  
DB 61 GTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACAGCTGGGGGTCCCTGAGACTCTCC 120  
QY 121 TGCCAGCCTCCGGGTTTCACTTCAATTAATCTACATGAGTGGTCCGCGCAG 180  
DB 121 TGTGAGCTCTG-----GATTCACTTTAGCAGCTATGCCATGAGCTGGGTCCGCGCAG 174  
QY 181 GCTCAGGCGAGGGCTGGAGTGGTCTCAGTATTAGTAGTGGTATCCCATGG 240  
DB 175 GCTCAGGGAAGGGGCTGGAGTGGGTCTCAACTATTAGTGGTATGAGTGGTATGACATAC 234  
QY 241 TACGAGACTCCGTGAAGGCGAGATTACCATCTCCAGAGAAAGCCCAACACACTG 300  
DB 235 TACGAGACTCCGTGAAGGCGGCTTCACTTCCAGAGAAATTCCNAGAACACGCTG 294  
QY 301 TTCTTTCAATGAACAGCTGAGAGTGGAGGACAGGCTGTCTATTACTGTGCGAGCTG 360  
DB 295 TATCTGCAATGAACAGCTGAGAGGCGGCTGAGAGCGGACACGCGCTATATTACTGTGCGAAAGAG 354  
QY 361 A-----CTACAGGCTGACTCTCTGGGCGCAGGAGTCCCTGGTCACCGTCTCTCA 411  
DB 355 AGGTATACTGGAACCTACCTACACTACTCTGGGCGCAGGGAACCCCTGGTCCCGTCTCTCA 414

RESULT 14  
US-10-309-764-134  
; Sequence 134, Application US/10309764  
; GENERAL INFORMATION:  
; APPLICANT: Foltz, Ian  
; APPLICANT: Babcock, John  
; APPLICANT: Palathumpat, Raju  
; APPLICANT: Yang, Xiao-dong  
; APPLICANT: King, Chadwick T.  
; TITLE OF INVENTION: ANTI-CDR4SRB ANTIBODIES FOR USE IN  
; TREATING AUTOIMMUNE DISEASE AND TRANSPLANT REJECTION  
; FILE REFERENCE: ABGENIX.029A  
; CURRENT APPLICATION NUMBER: US/10/309,764  
; CURRENT FILING DATE: 2002-12-02  
; PRIOR APPLICATION NUMBER: 60/337,276  
; PRIOR FILING DATE: 2001-12-03  
; NUMBER OF SEQ ID NOS: 147





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Maximum number of alignments: 1000

Run on: July 15, 2003, 06:43:58 ; Search time 32.4004 seconds  
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1490.207 Million cell updates/sec

Time: 28.0.292.053.7

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Sequence: 411

Best Local Similarity 99.5%; Pred.No. 7e-113;		
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1	ATGAGATTGGGCTGAGCTGGGTTTTCTCTTTTGAAGGTGTCAGTGTGAG 60	
1	ATGAGTTTGGGCTGAGCTGGGTTTTCTCTTTTGAAGGTGTCAGTGTGAG 60	
61	GTGCAGCTGGTGGAGTCTGGGGGGGCTTGGCAAAGCCTGGGGGTCCCTGAGACTCTCC 120	
61	GTGCAGCTGGTGGAGTCTGGGGGGGCTTGGCAAAGCCTGGGGGTCCCTGAGACTCTGG 120	
121	TGCGGAGCCTCGGGTTGAGGTTTCACTTCAATTAACCTACTATGAGACTGGGTCCGCGAG 180	
121	TGCGGAGCCTCGGGTTGAGGTTTCACTTCAATTAACCTACTATGAGACTGGGTCCGCGAG 180	
181	GCTCCAGGGCAGGGCTGGAGTGGGTCTCAGGTATTAGTAGTGTGATCCACATGG 240	
181	GCTCCAGGGCAGGGCTGGAGTGGGTCTCAGGTATTAGTAGTGTGATCCACATGG 240	
241	TACGCAGACTCCGTGAAGGGCAGATTACACATCTCCAGAGAGAAGCCAAACACACTG 300	
241	TACGCAGACTCCGTGAAGGGCAGATTACACATCTCCAGAGAGAAGCCAAACACACTG 300	
301	TTTCTTCAAATGAACAGGCTCAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360	
301	TTTCTTCAAATGAACAGGCTCAGAGCTGAGGACACGGCTGTCTATTACTGTGCGAGCTTG 360	
361	ACTACAGGCTGTACTCTGGGGCAGGAGTCTCTGGTCAACCGTCTCTCTCA 411	
361	ACTACAGGCTGTACTCTGGGGCAGGAGTCTCTGGTCAACCGTCTCTCTCA 411	

## RESULT 2

```

US-09-343-485A-3
; Sequence 3, Application US/09343485A
; Patent No. 641377
; GENERAL INFORMATION:
; APPLICANT: REFF, MITCHELL R.
; APPLICANT: BARNETT, RICHARD S.
; APPLICANT: MCLACHLAN, KAREN R.
; TITLE OF INVENTION: NOVEL METHOD FOR INTEGRATING GENES AT SPECIFIC SITES IN
; TITLE OF INVENTION: MAMMALIAN CELLS VIA HOMOLOGOUS RECOMBINATION AND
; TITLE OF INVENTION: VECTORS FOR ACCOMPLISHING THE SAME
; FILE REFERENCE: 037003-0275807
; CURRENT APPLICATION NUMBER: US/09/343,485A
; CURRENT FILING DATE: 1999-06-30
; PRIOR APPLICATION NUMBER: 09/023,715
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 08/819,866
; PRIOR FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 19040
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
; OTHER INFORMATION: referred to as "Mandy"
US-09-343-485A-3

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Query Match	88.0%;	Score 361.6;	DB 4;	Length 19040;
Best Local Similarity	93.9%;	Pred. No. 2.3e-98;		
Matches 387;	Conservative 0;	Mismatches 24;	Indels 1;	Gaps 1;

  

QY	1	ATGCAGTTTGGCTGAGCTGGGTTTTCCTTGTCTCTTTTGAAGGTGCCAGTGTGAG	60
Db	9436	ATGGTTGGAGCCTCATCTTCTCTTCTGTGCTGTCTACGCGTGTCTGTCCGAG	9495

  

QY	61	GTGCAGCTGTGTGAGTCTGGGGGCGGCTTGGCAAAGCTCGGGGGTCCCTGAGACTCTCC	120
Db	,9496	GTGCAGCTGTGTGAGTCTGGGGGCGGCTTGGCAAAGCTCGGGGGTCCCTGAGACTCTCC	9555

Qy	121	TGCGCAGCCTCCGGGTT	CAGGTTT	CAGCTT	CAATACTACTACATGGACTGGGTTCGCCAG	180
Db	9556	TGCGCAGCCTCCGGGTT	CAGGTTT	CAGCTT	CAATACTACTACATGGACTGGGTTCGCCAG	9615
Qy	181	GCTCCAGGGCAGGGGCT	GAGTG	GGGTCT	CACGTTATTAGTAGTAGTGGTGATCCCATGG	240
Db	9616	GCTCCAGGGCAGGGGCT	GAGTG	GGGTCT	CACGTTATTAGTAGTAGTGGTGATCCCATGG	9675
Qy	241	TACGCAGACTCCGTTGA	GGGCAGATT	CAACATCT	CAGAGAAAGCCCAACACACTTG	300
Db	9676	TACGCAGACTCCGTTGA	GGGCAGATT	CAACATCT	CAGAGAAAGCCCAACACACTTG	9735
Qy	301	TTTCTTTCAAATGAAC	AGCGCTG	AGAGT	CAGGCTGCTATTACTGTGCGAGCTTG	360
Db	9736	TTTCTTTCAAATGAAC	AGCGCTG	AGAGT	CAGGCTGCTATTACTGTGCGAGCTTG	9795
Qy	361	ACTACAGGCTCTGACT	-	CCTGGGGCCAGGAGT	CTCTGGTCAACCGTCTCTCTCA	411
Db	9796	ACTACAGGCTCTGACT	CTCTGGGGCCAGGAGT	CTCTGGTCAACCGTCTCTCTCA		9847

### RESULT 3

US-08-026-320A-1  
; Sequence 1, Application US/08026320A  
; Patent No. 5419904  
; GENERAL INFORMATION:  
; APPLICANT: Irie, Reiko F  
; TITLE OF INVENTION: HUMAN B-LYMPHOBLASTOID CELL LINE  
; TITLE OF INVENTION: SECRETING ANTI-GANGLIOSIDE ANTIBODY  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pons, Smith, Lande & Rose  
; STREET: 2029 Century Park East, Suite 3800  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: United States of America  
; Zip: 90067  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/026,320A  
; FILING DATE: 26-FEB-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/609803  
; FILING DATE: 05-NOV-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Oldenkamp, David J  
; REGISTRATION NUMBER: 29421  
; REFERENCE/DOCKET NUMBER: 92468  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 3107885046  
; TELEFAX: 3102771297  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 432 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; CELL TYPE: Eostein Barr Virus Transformed B cell  
; CELL LINE: L612  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..432  
; OTHER INFORMATION: /function= "Heavy Chain"









Db 61 GTGCAGCTGGTGGAGTCTCGGGGAGCGTGGTCCAGCCTGGGAGGTCCCTCGAGACTCTCC 120  
Qy 121 TCGCAGCCTCCGGGTTCAGGTTTCACTTCAATACTACTACATGACTGGGTCCGCCAG 180  
Db 121 TGTGAGCCTCTG-----GATTCACTTCAGTAGTATGGCATGCACTGGGTCCGCCAG 174  
Qy 181 GTCCAGGCGAGGGCTGGAGTGGGTCTCACGTATTAGTAGTGGTGATCCCACTGG 240  
Db 175 GCTCCAGGCAAGGGCTGGAGTGGGTGGCAGTGATCATATGATGAAGTAATAATGG 234  
Qy 241 TAGCAGACTCGTGAAGGCGAGATTCACCATCTCCAGAGAAAGCCCAACACACTG 300  
Db 235 TATGAGACTCGTGAAGGCGGATTCACCATCTCCAGAGACAATTCGAAGAACACTGT 294  
Qy 301 TTCTTCAATGAACAGCTGAGAGCTGAGGACAGCGCTGTCTATTACTGTGCGA 355  
Db 295 TTCTGCAATGCACAGCCTGAGAGCTGCGGACAGCGGTGTATATTACTGTGCGA 349

## RESULT 8

US-08-545-809A-21  
; Sequence 21, Application US/08545809A  
; Patent No. 6096878  
; GENERAL INFORMATION:  
; APPLICANT: Honjo, Tasuku  
; APPLICANT: Matsuda, Fumihiho  
; TITLE OF INVENTION: HUMAN IMMUNOGLOBULIN VH GENE  
; TITLE OF INVENTION: SEGMENTS AND DNA FRAGMENTS CONTAINING THE SAME  
; NUMBER OF SEQUENCES: 145  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/545,809A  
; FILING DATE: 27-MAR-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/JP93/00603  
; FILING DATE: 10-MAY-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Freeman, John W.  
; REGISTRATION NUMBER: 29,066  
; REFERENCE/DOCKET NUMBER: 06501/004001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 519 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: Genomic DNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; CELL TYPE: human lymphoblast  
; CELL LINE: CGM1  
US-08-545-809A-21

Query Match 58.2%; Score 239.4; DB 3; Length 519;  
Best Local Similarity 85.6%; Pred. No. 1.8e-62;  
Matches 280; Conservative 0; Mismatches 41; Indels 6; Gaps 1;  
Qy 30 TGTCTCTCTTTTAAAGGTGTCCAGTGTGAGGTGCGAGCTGTGGAGTCTGGGGGCGGCTT 89

Db 141 TGTCTCTCTCTTTTCCAGGTGTCCAGTGTGAGTGCACAACTGGTGGAGTCTGGGGGAGGCT 200  
Qy 90 GGCAAAAGCCTGGGGGTCCCTGAGACTCTCTGCGCAGCCTCCGGGTTCAGGTTCACTT 149  
Db 201 GGTCAAGCCTGGGGGTCCCTGAGACTCTCTGTGCAGCCTCTG-----GATTCACTT 254  
Qy 150 CAATAAATCTACTACATGACTGGGTCCGCCAGGCTCCAGGGCAGGGGCTGGAGTGGGTCTC 209  
Db 255 CAGTAGCTATAGCATGAACTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTC 314  
Qy 210 ACGTATTAGTAGTAGTGGTGTATCCCATGATGTCAGCAGACTCTCGTGAAGGCGAGATTAC 269  
Db 315 ATCCATTAGTAGTAGTAGTTACATATATACTACGCAGACTCTAGTGAAGGCCGATTAC 374  
Qy 270 CATCTCCAGAGAGAACCCCAACACACTGTTTCTTCAATGAACAGCCTGAGAGCTGA 329  
Db 375 CATCTCCAGAGACAACGCCAAGAACTCACTGTATCTGCAATGAACAGCCTGAGAGCGGA 434  
Qy 330 GGACACGGCTGTCTATTACTGTGCGAG 356  
Db 435 GGACACGGCTGTATTACTGTGCGAG 461

## RESULT 9

US-08-545-809A-48  
; Sequence 48, Application US/08545809A  
; Patent No. 6096878  
; GENERAL INFORMATION:  
; APPLICANT: Honjo, Tasuku  
; APPLICANT: Matsuda, Fumihiho  
; TITLE OF INVENTION: HUMAN IMMUNOGLOBULIN VH GENE  
; TITLE OF INVENTION: SEGMENTS AND DNA FRAGMENTS CONTAINING THE SAME  
; NUMBER OF SEQUENCES: 145  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/545,809A  
; FILING DATE: 27-MAR-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/JP93/00603  
; FILING DATE: 10-MAY-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Freeman, John W.  
; REGISTRATION NUMBER: 29,066  
; REFERENCE/DOCKET NUMBER: 06501/004001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 48:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 743 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: Genomic DNA  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; CELL TYPE: human lymphoblast  
; CELL LINE: CGM1  
US-08-545-809A-48

Query Match 58.18; Score 100.0; DP 3; Length 743;  
 Best Local Similarity 85.68; Pred. No. Gaps 62;  
 Matches 280; Conservative 0; Mismatch 41; Indels 1;  
 US-09-545-809A-11

QV 10 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGAAGTCTGGGGGGGCTT 89  
 DB 10 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 365  
 QV 11 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 149  
 DB 11 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 419  
 QV 12 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 209  
 DB 12 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 479  
 QV 13 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 269  
 DB 13 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 539  
 QV 14 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 329  
 DB 14 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 599  
 QV 15 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 354  
 DB 15 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 624

RESULT 1  
 US-09-545-809A-11  
 Sequence 11, Application US/09/545-809A  
 Parent No. 628135  
 GENERAL INFORMATION:  
 APPLICANT: de Courcy, F.J.R.  
 APPLICANT: Ceriani, R.L.C.  
 APPLICANT: Petersen, J.A.  
 TITLE OF INVENTION: HYBRIDOMA ANTIBODY AND ASSAY FOR THE  
 TITLE OF INVENTION: MONOCLONAL ANTIBODY AND ASSAY FOR THE  
 NUMBER OF SEQUENCES: 145  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: F.J.R. de Courcy, F.J.R.  
 STREET: 300 Park Avenue  
 CITY: New York  
 STATE: NY  
 COUNTRY: US  
 ZIP: 10022-7499  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette 3.50 inch, 1.44 MB  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Parent In Release #1.0, Version #1.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/545-809A  
 FILING DATE: 08-OCT-1993  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Onofrio, Dana L.  
 REGISTRATION NUMBER: 34,899  
 REFERENCE/DOCKET NUMBER: 149,899  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-826-6566  
 TELEFAX: 212-826-6389  
 INFORMATION FOR SEQ ID NO: 43:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 417 base pairs  
 TYPE: nucleic acid

Query Match 58.18; Score 100.0; DP 3; Length 743;  
 Best Local Similarity 85.48; Pred. No. Gaps 62;  
 Matches 280; Conservative 0; Mismatch 41; Indels 1;  
 US-09-545-809A-11

QV 29 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 149  
 DB 29 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 419  
 QV 31 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 209  
 DB 31 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 479  
 QV 32 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 269  
 DB 32 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 539  
 QV 33 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 329  
 DB 33 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 599  
 QV 34 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 354  
 DB 34 TTTCTTTTAAATTTTCAATTTTATTTAGCTGGTGGTGGGGGGGCTT 624

RESULT 11  
 US-09-134-346A-49  
 Sequence 49, Application US/09/134-346A  
 Parent No. 628135  
 GENERAL INFORMATION:  
 APPLICANT: de Courcy, F.J.R.  
 APPLICANT: Ceriani, R.L.C.  
 APPLICANT: Petersen, J.A.  
 TITLE OF INVENTION: HYBRIDOMA ANTIBODY AND ASSAY FOR THE  
 TITLE OF INVENTION: MONOCLONAL ANTIBODY AND ASSAY FOR THE  
 NUMBER OF SEQUENCES: 51  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Ostlager, Choni & Flabatty  
 STREET: 300 Park Avenue  
 CITY: New York  
 STATE: NY  
 COUNTRY: US  
 ZIP: 10022-7499  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette 3.50 inch, 1.44 MB  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Parent In Release #1.0, Version #1.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/134-346A  
 FILING DATE: 08-OCT-1993  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Onofrio, Dana L.  
 REGISTRATION NUMBER: 34,899  
 REFERENCE/DOCKET NUMBER: 149,899  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-826-6566  
 TELEFAX: 212-826-6389  
 INFORMATION FOR SEQ ID NO: 43:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 417 base pairs  
 TYPE: nucleic acid





;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Townsend and Townsend Khourie and Crew  
;; STREET: 379 Lytton Avenue  
;; CITY: Palo Alto  
;; STATE: California  
;; COUNTRY: US  
;; ZIP: 94301  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent In Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/305,683A  
;; FILING DATE: 13-SEP-1994  
;; CLASSIFICATION: 424  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/759,279  
;; FILING DATE: 13-SEP-1991  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Liebeschuetz, Joe  
;; REGISTRATION NUMBER: 37,505  
;; REFERENCE/DOCKET NUMBER: 11823-005230  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (415) 326-2400  
;; TELEFAX: (415) 326-2422  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 426 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: cDNA  
;; FEATURE:  
;; NAME/KEY: CDS  
;; LOCATION: 1..426  
;; OTHER INFORMATION: /product= "HSV863 heavy chain"  
;; OTHER INFORMATION: variable region"  
US-08-305-683A-1

Query Match 55.6%; Score 228.4; DB 1; Length 426;  
Best Local Similarity 79.8%; Pred. No. 3.3e-59;  
Matches 284; Conservative 0; Mismatches 66; Indels 6; Gaps 1;  
  
Qy 1 ATGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTCCTCTTTTGAAGGTTGCCAGTGTGAG 60  
Db 1 ATGGAGTTTGGGCTGAGCTGGGTTTTCCTTGTTCCTCTTTTGAAGGTTGCCAGTGTGAG 60  
  
Qy 61 GTGCAGCTGGTGGAGTCTCGGGGCGGCTTGGCAAGCCTGGGGGTCCTGAGACTCTCC 120  
Db 61 GTGCAGCTGGTGGAGTCTCGGGGCGGCTTGGCAAGCCTGGGGGTCCTGAGACTCTCC 120  
  
Qy 121 TCGGAGCTTCGGGTTTCAAGTTTCACTTCACTACTACTACTACTACTACTACTACTACT 180  
Db 121 TGTGCAGCTGTG-----GATTCACTTCACTAGCCATGTCTCATGTTGGGTCCGCCAG 174  
  
Qy 181 GCTCCAGGCGAGGGGCTGGAGTGGGTCTCACGTATTAGTAGTGGTGTATCCCATGG 240  
Db 175 GCTCCAGGCGAGGGGCTGGAGTGGGTCTCACGTATTAGTAGTGGTGTATCCCATGG 234  
  
Qy 241 TAGCGAGACTCCGTGAAGGCGAGATTCACTATCTCCAGAGAGACGCCAACACACTG 300  
Db 235 TATGGAGAGTCCGTGAAGGCGGATTTCATCATCTCCAGAGACAAATCCAAAGAAATATCCTG 294  
  
Qy 301 TTCTTCAATGACAGCTGAGAGCTGAGGACACGGCTGTATATCTACTGTCCGAG 356  
Db 295 TATCTCAATGACAGCTGAGAGCGGAGGACACGGCTGTATATCTACTGTCCGAG 350

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Job time : 33.4004 secs